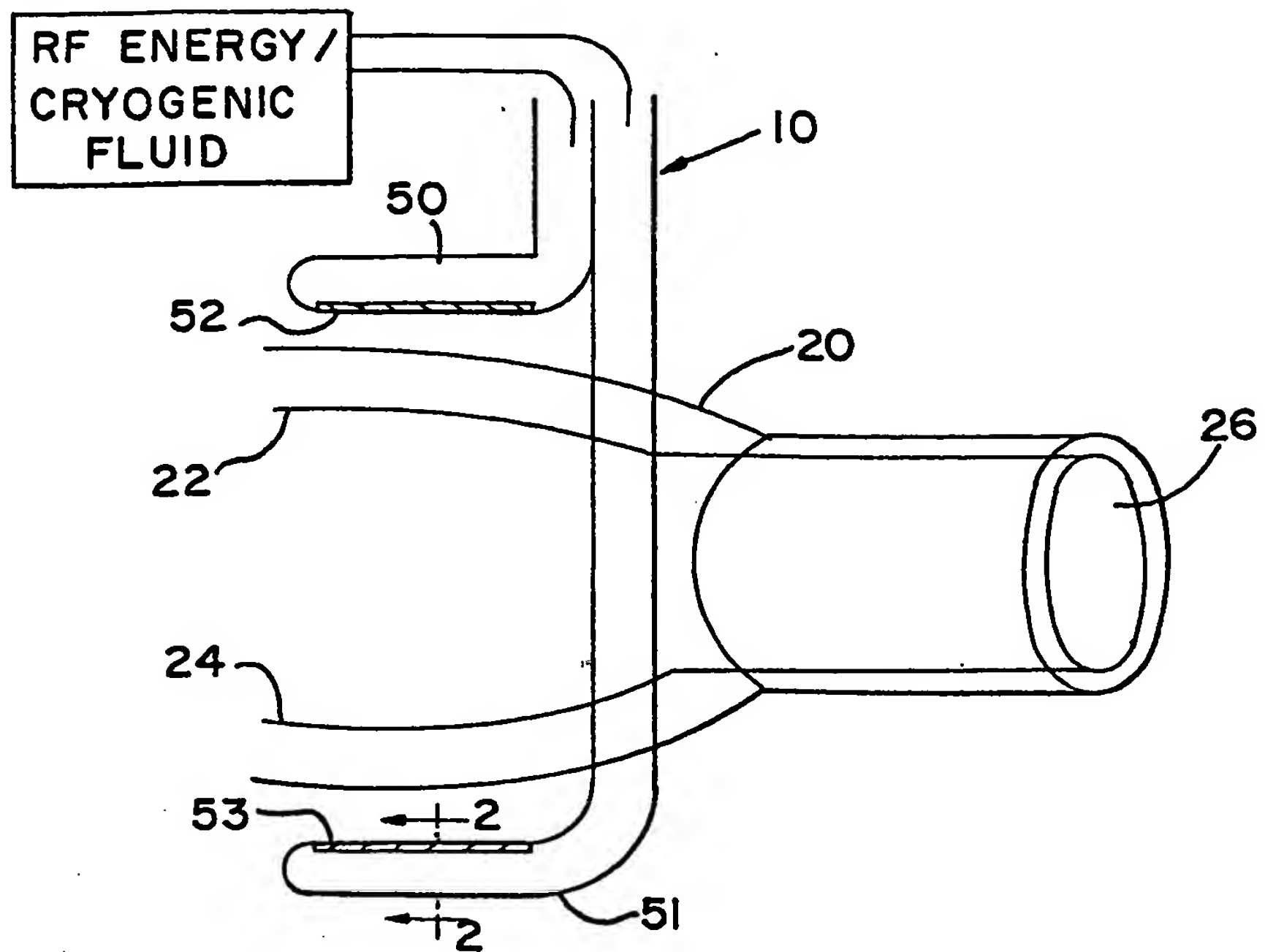
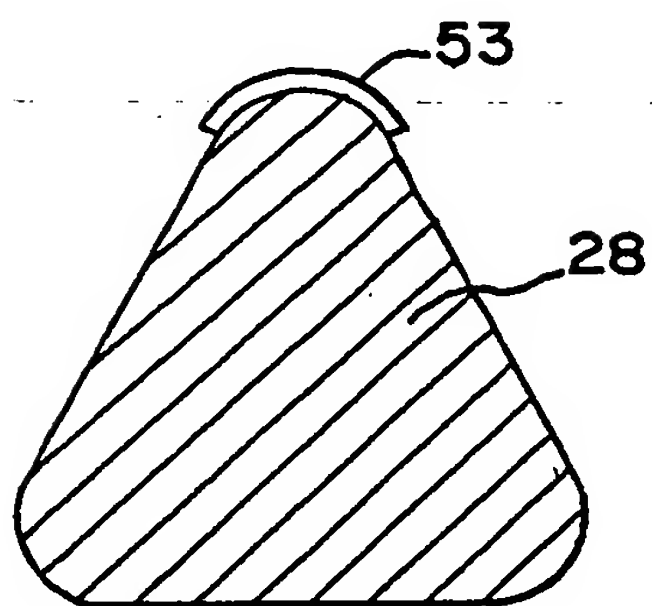


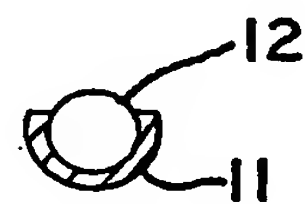
# FIG. 1



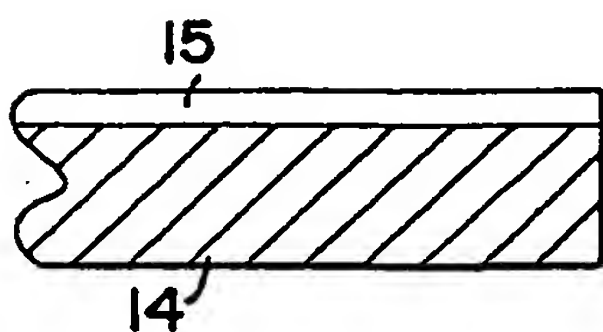
# FIG. 2



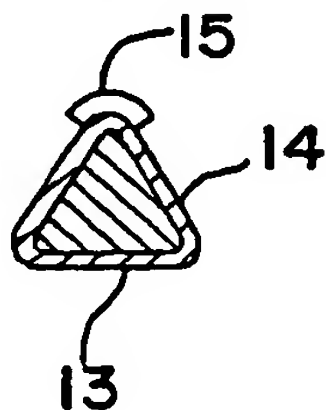
# FIG. 3



# FIG. 4



# FIG. 5



# FIG. 6

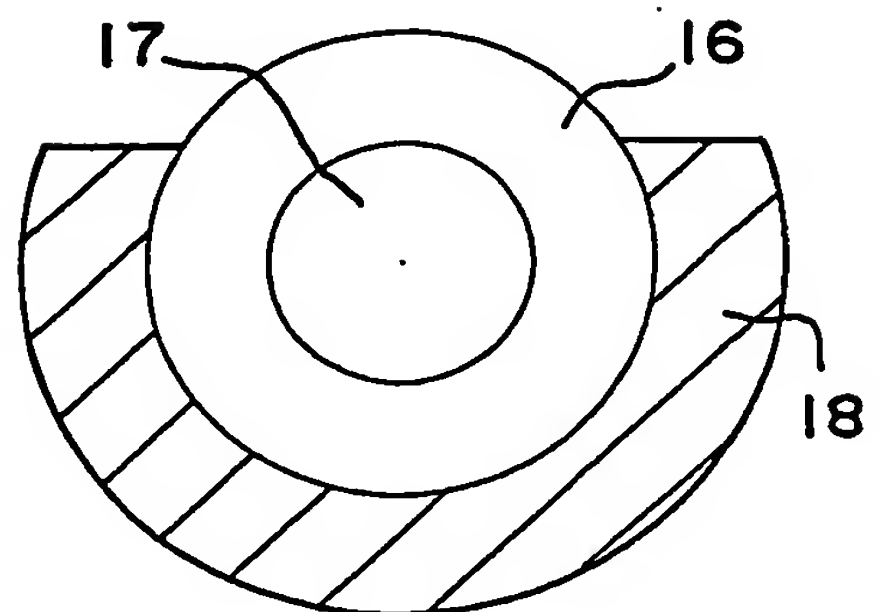


FIG. 7

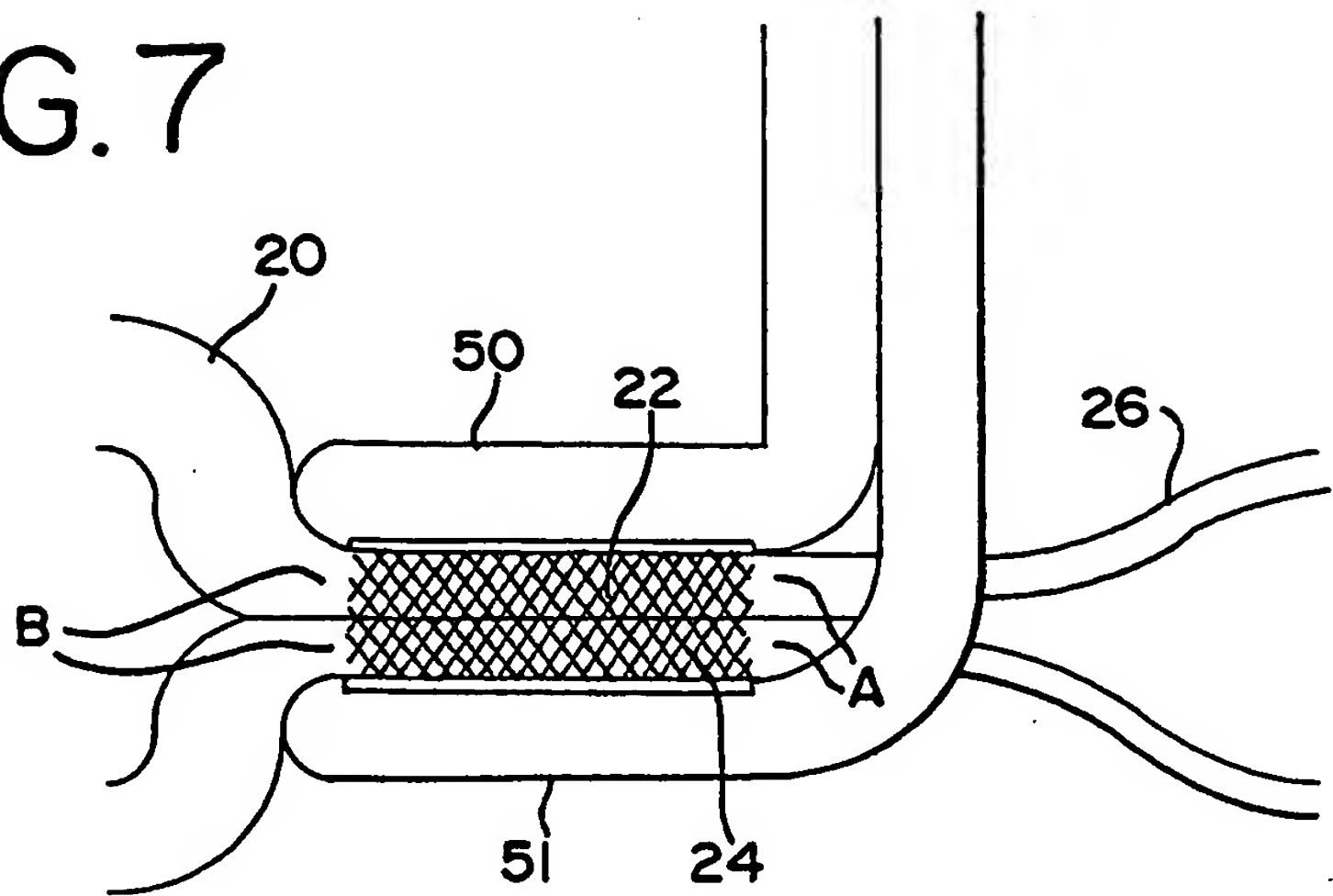


FIG. 8

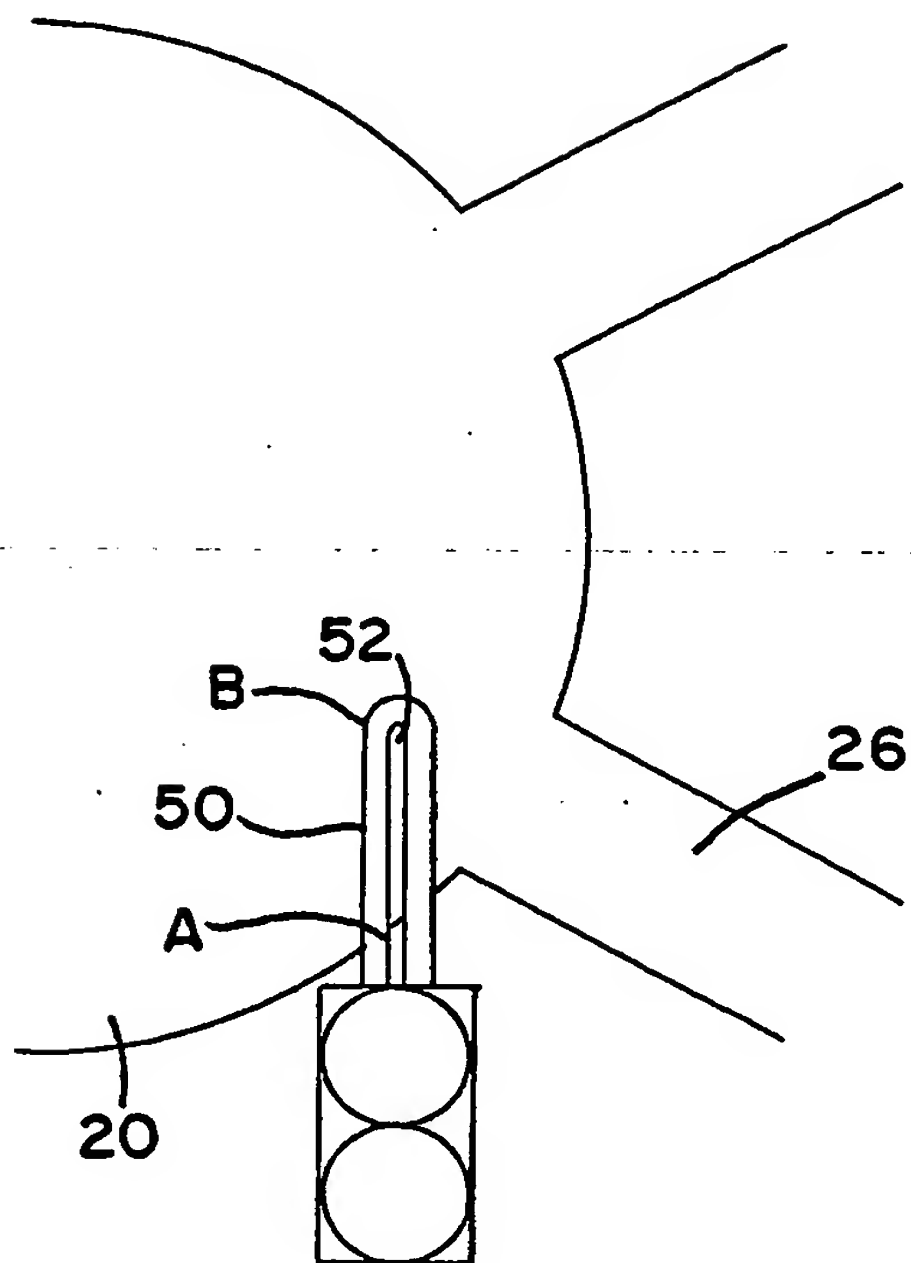


FIG. 9

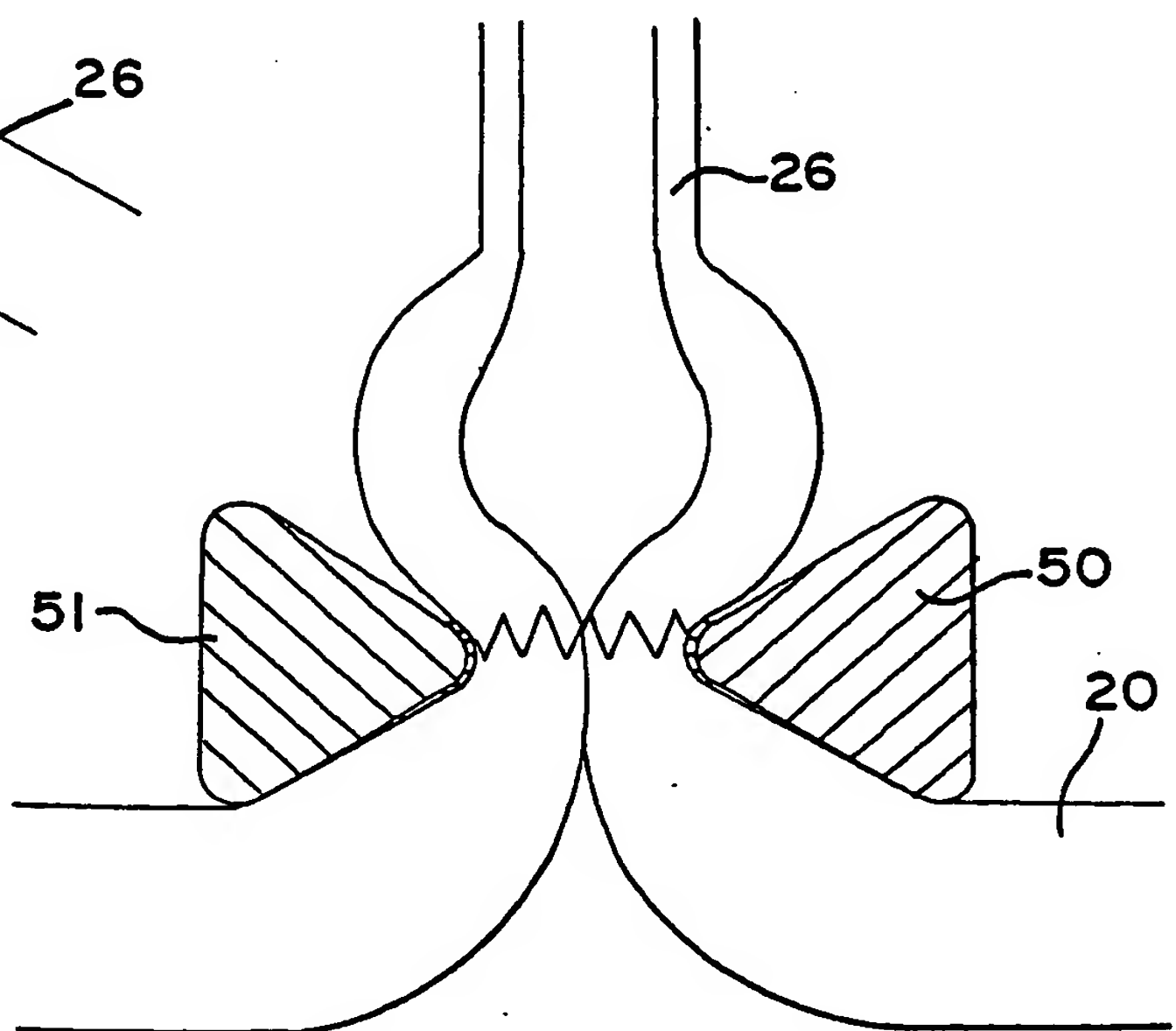


FIG.10

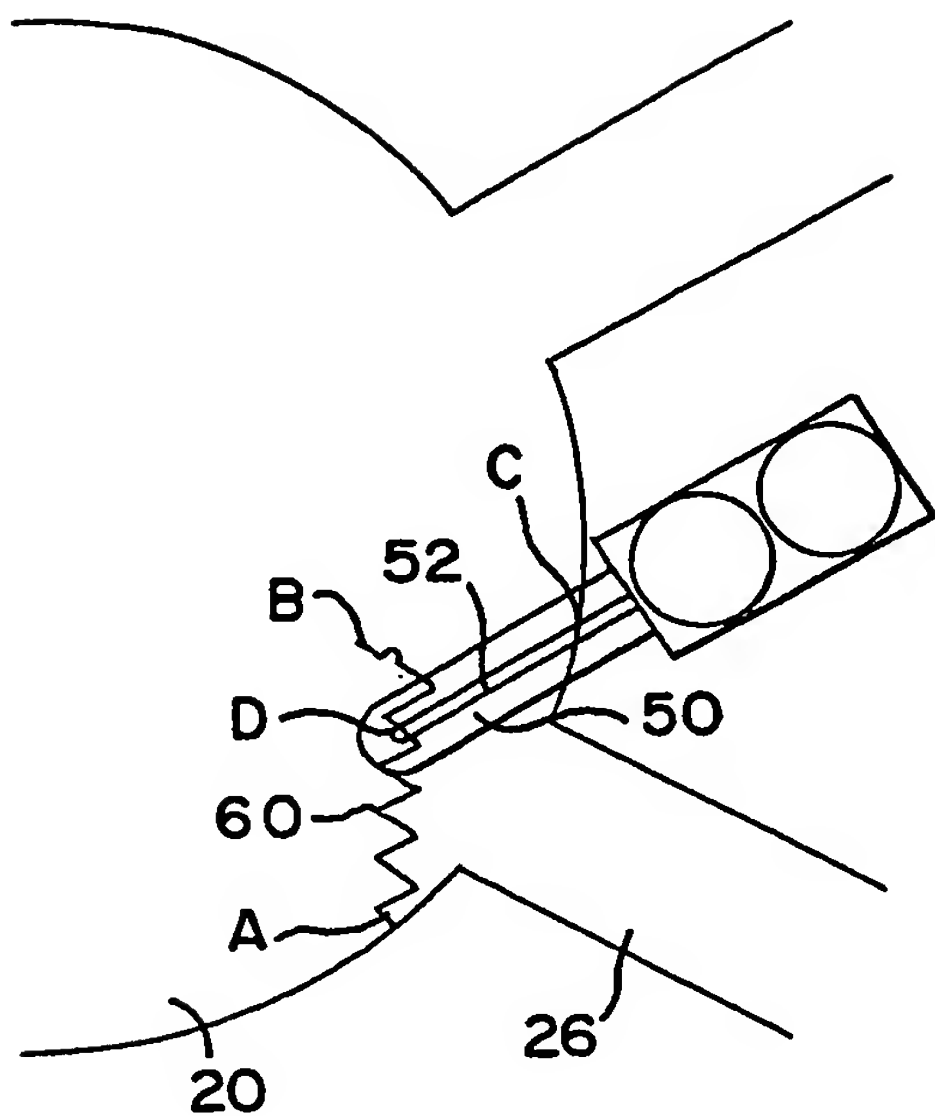


FIG.11

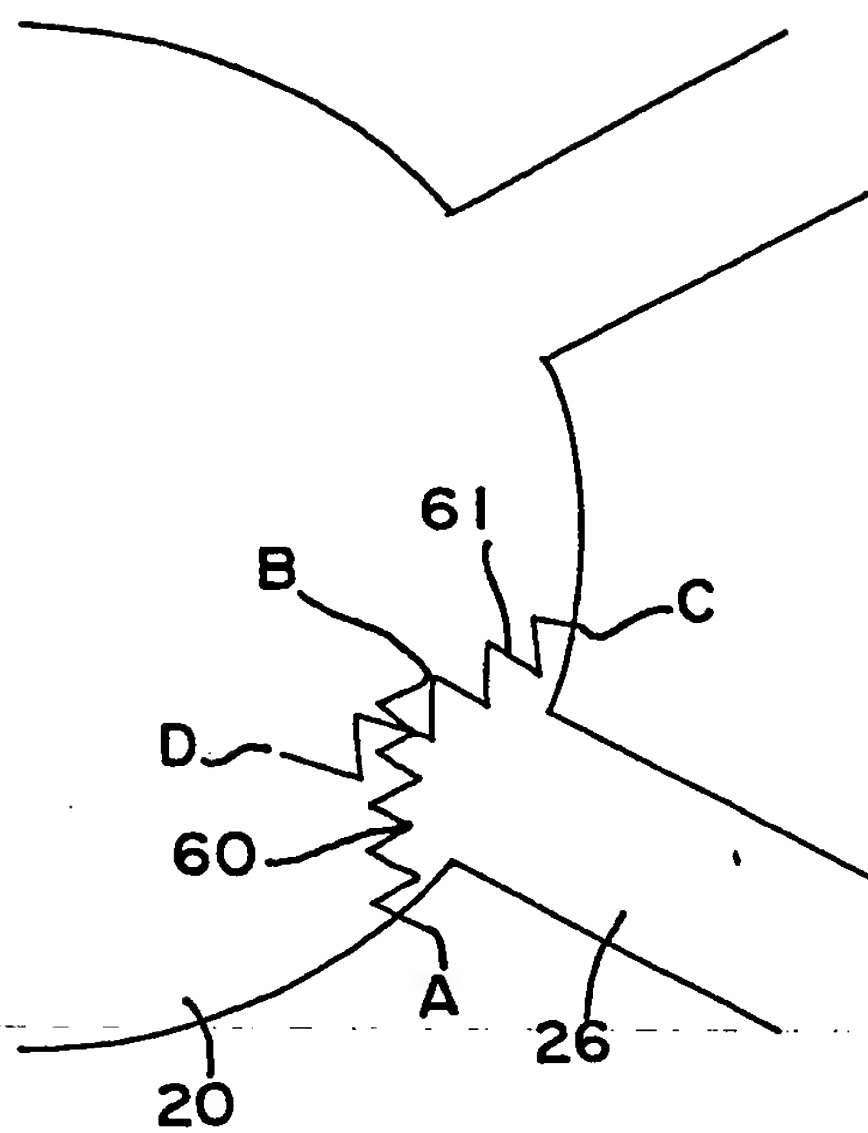


FIG.12

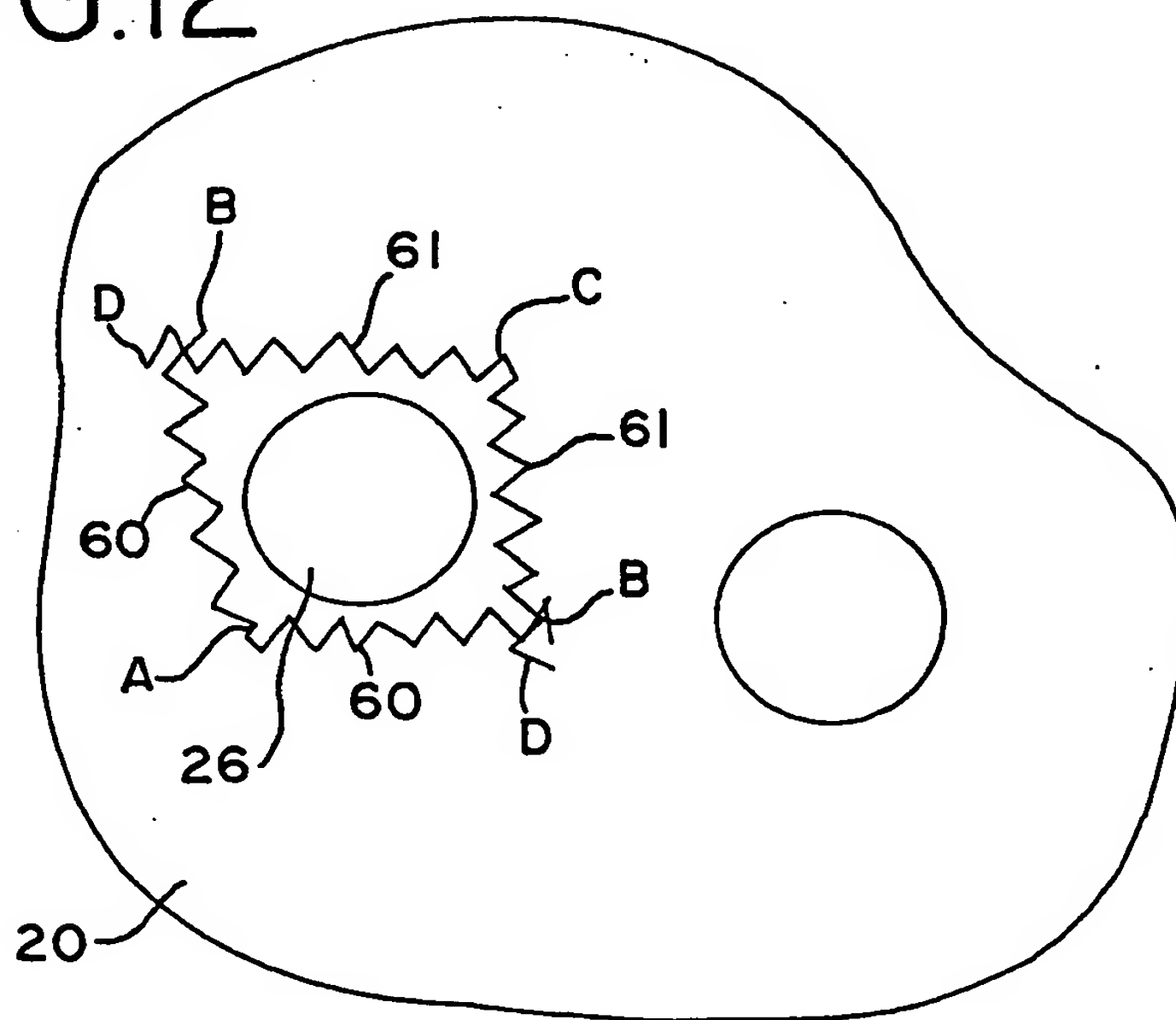


FIG.13

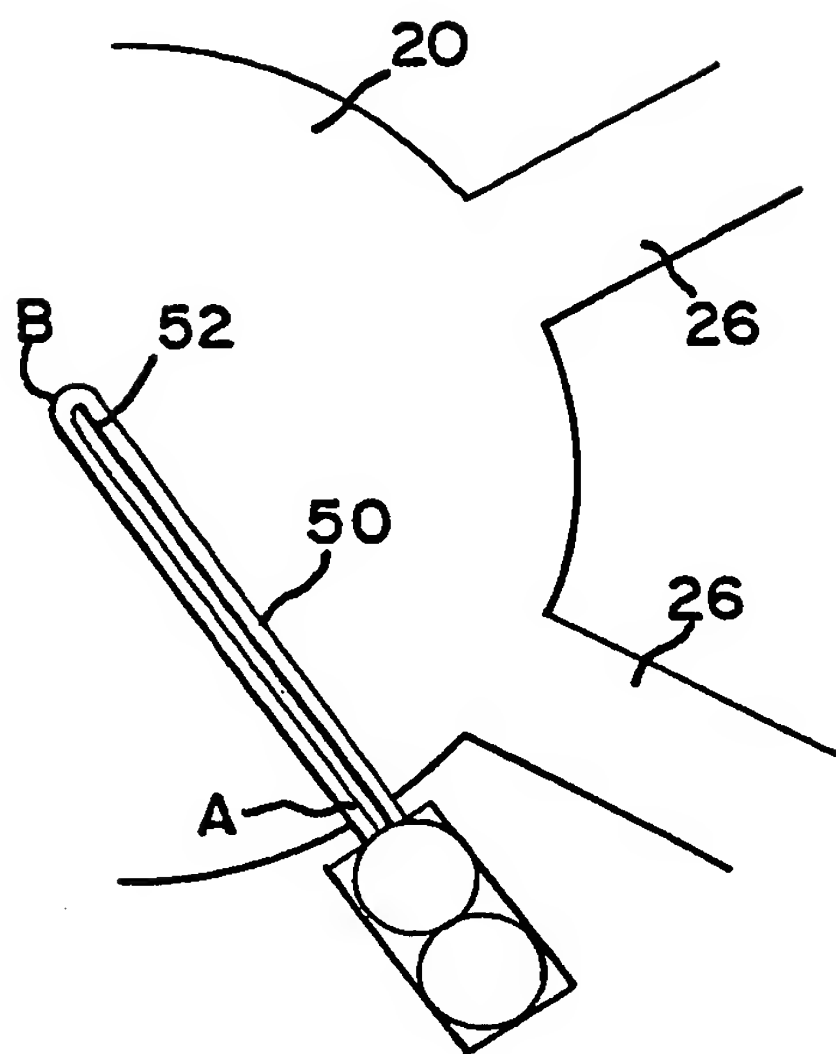


FIG.14

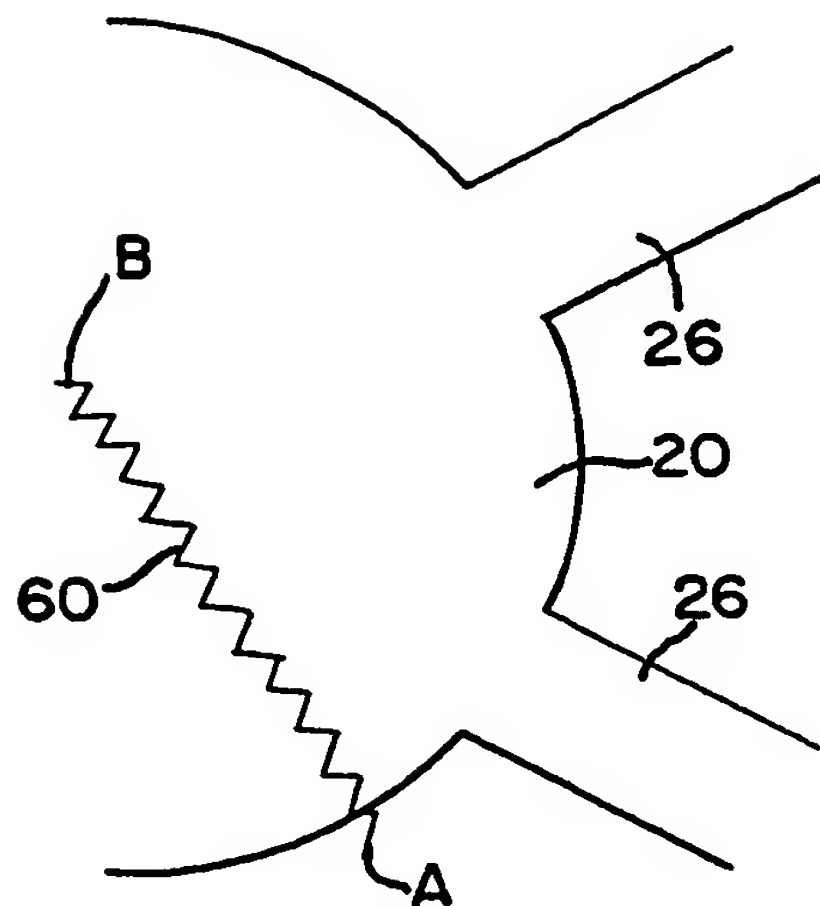


FIG.16

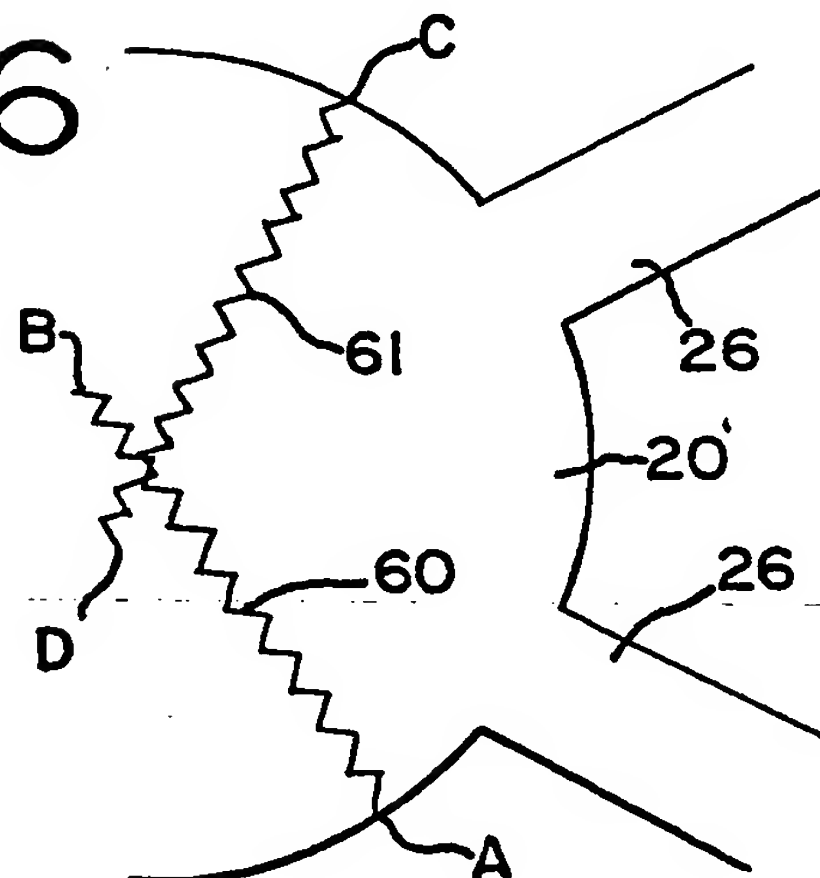


FIG.15

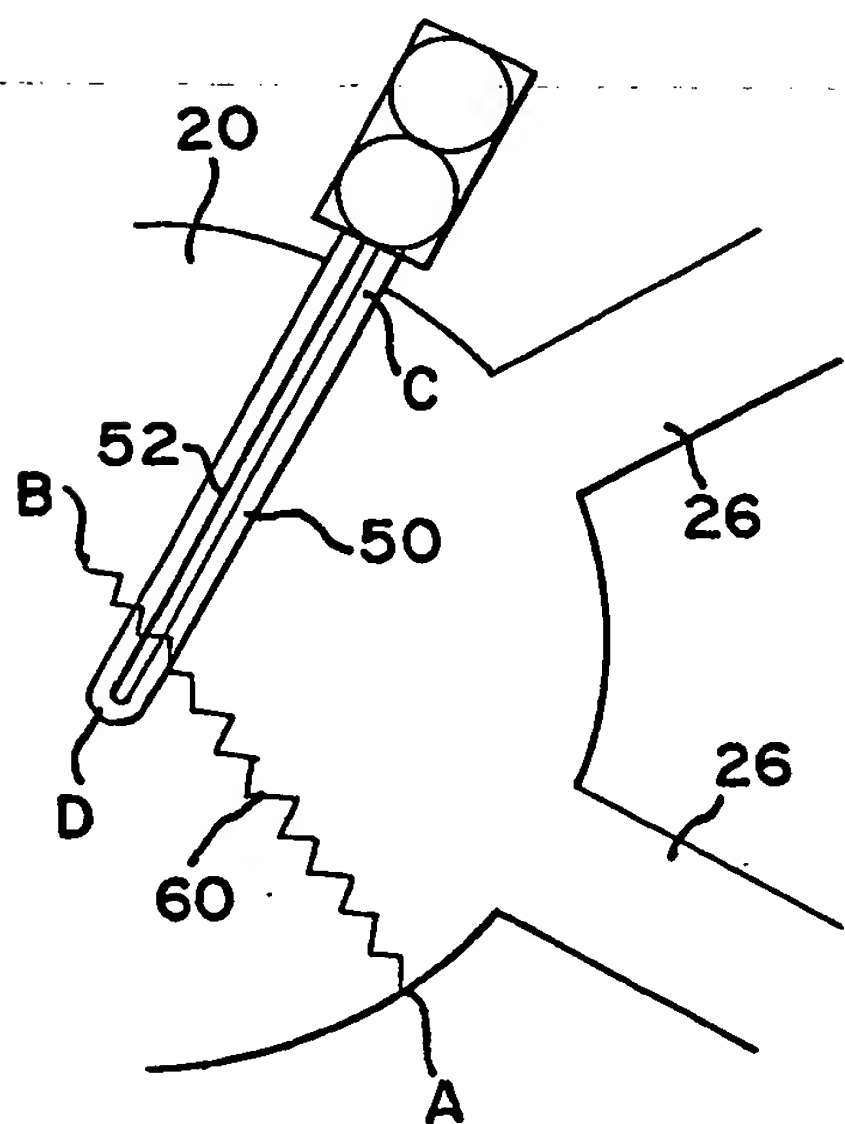


FIG.17

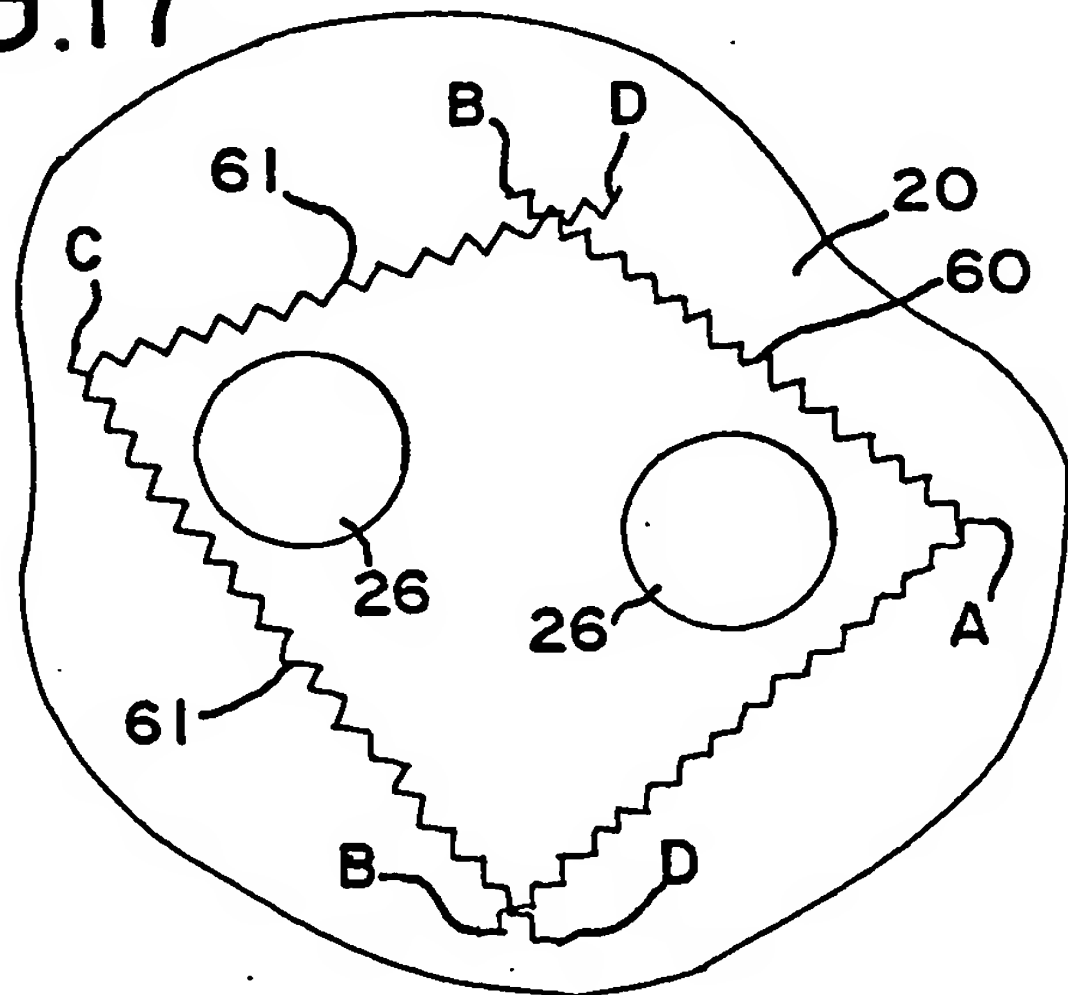


FIG. 19

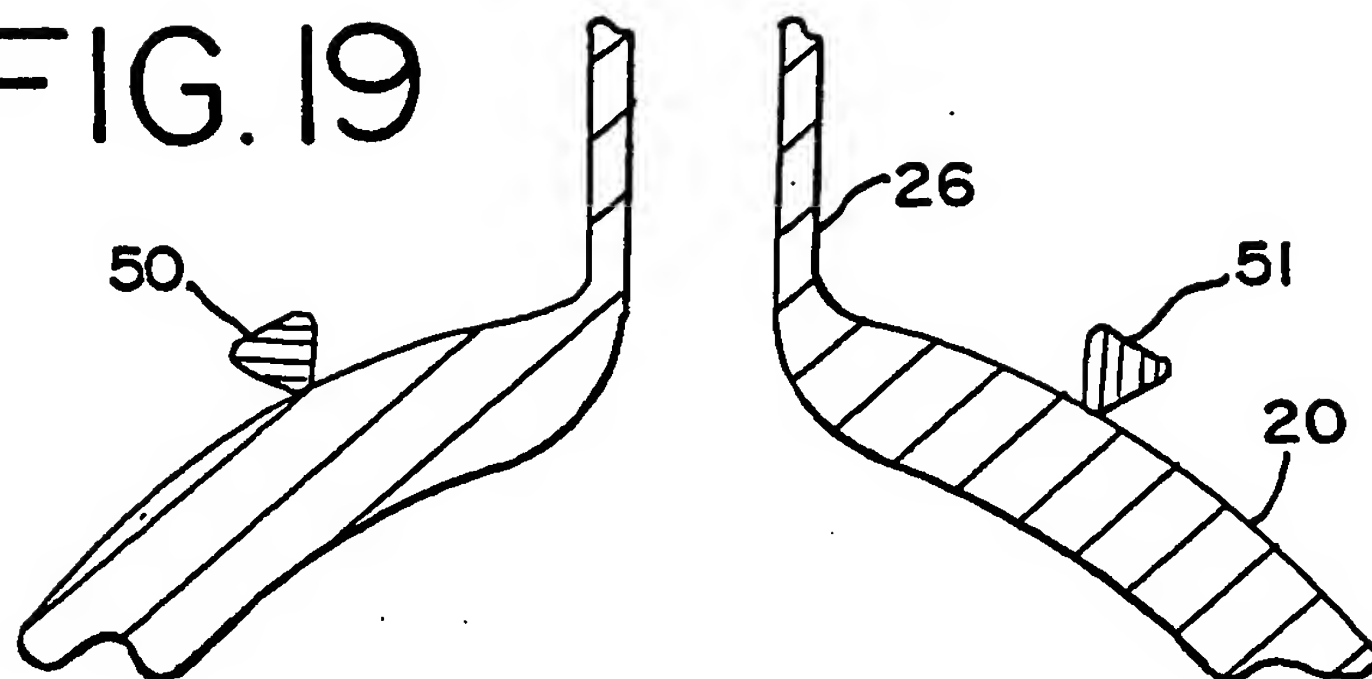


FIG. 18

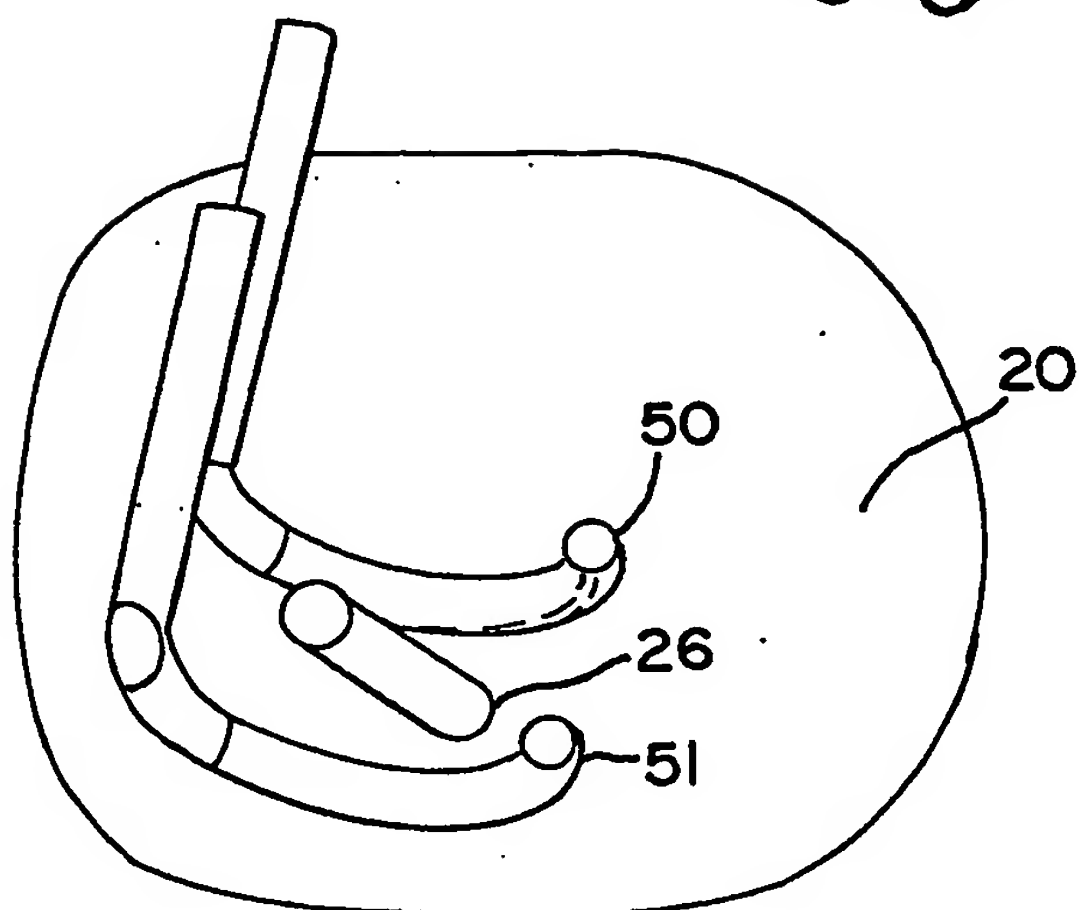


FIG. 21

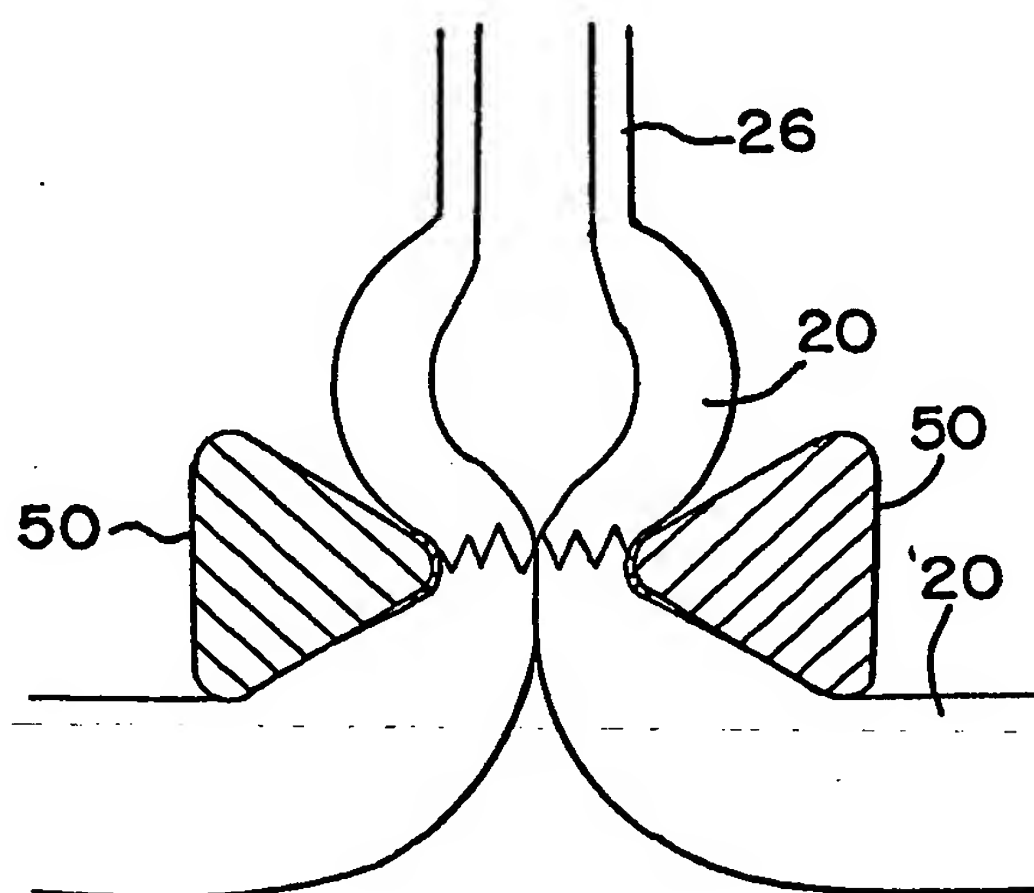


FIG. 20

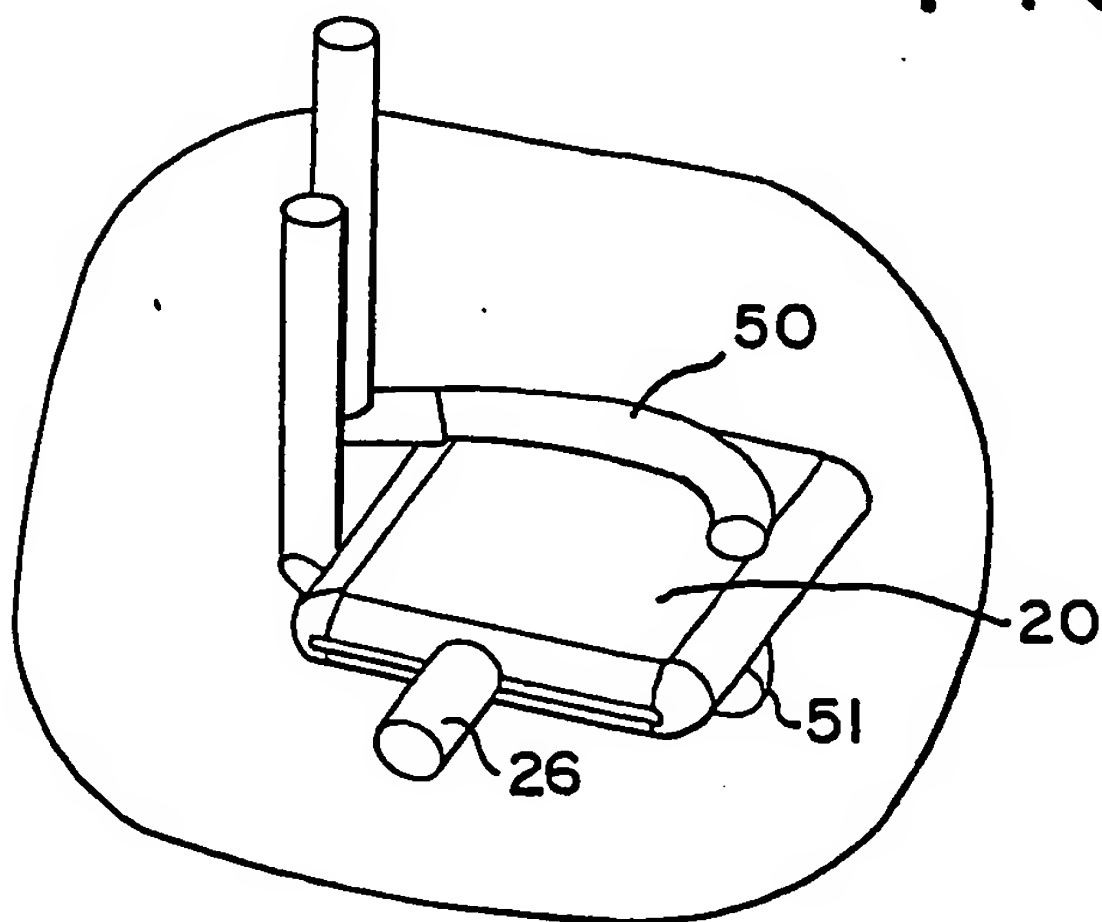


FIG. 22

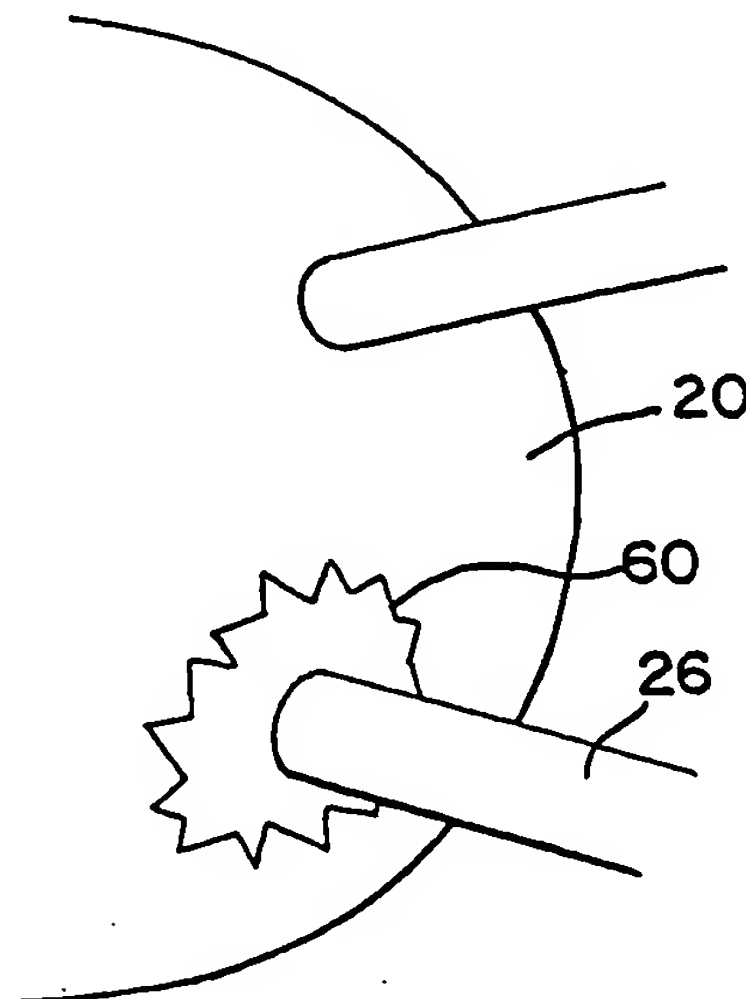


FIG.24

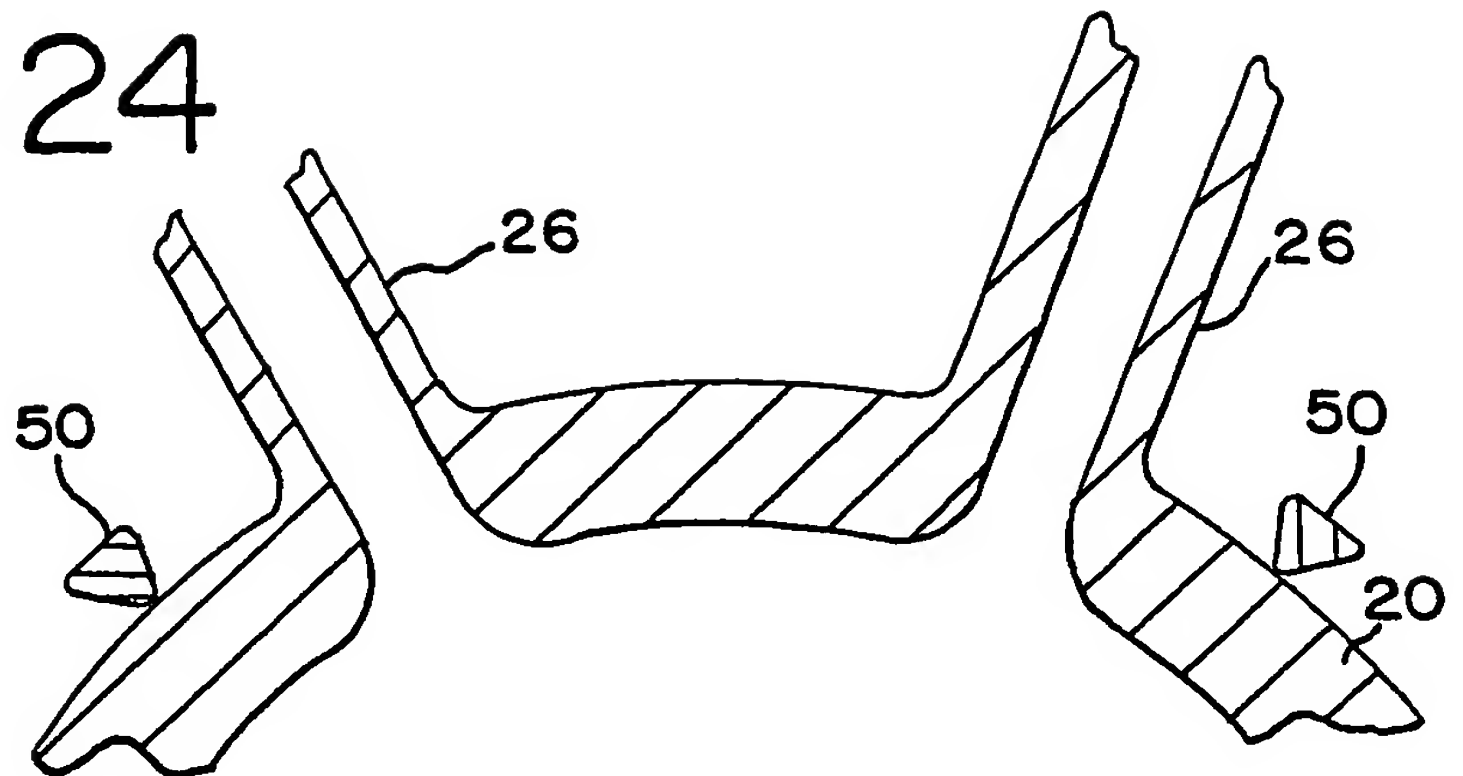


FIG.23

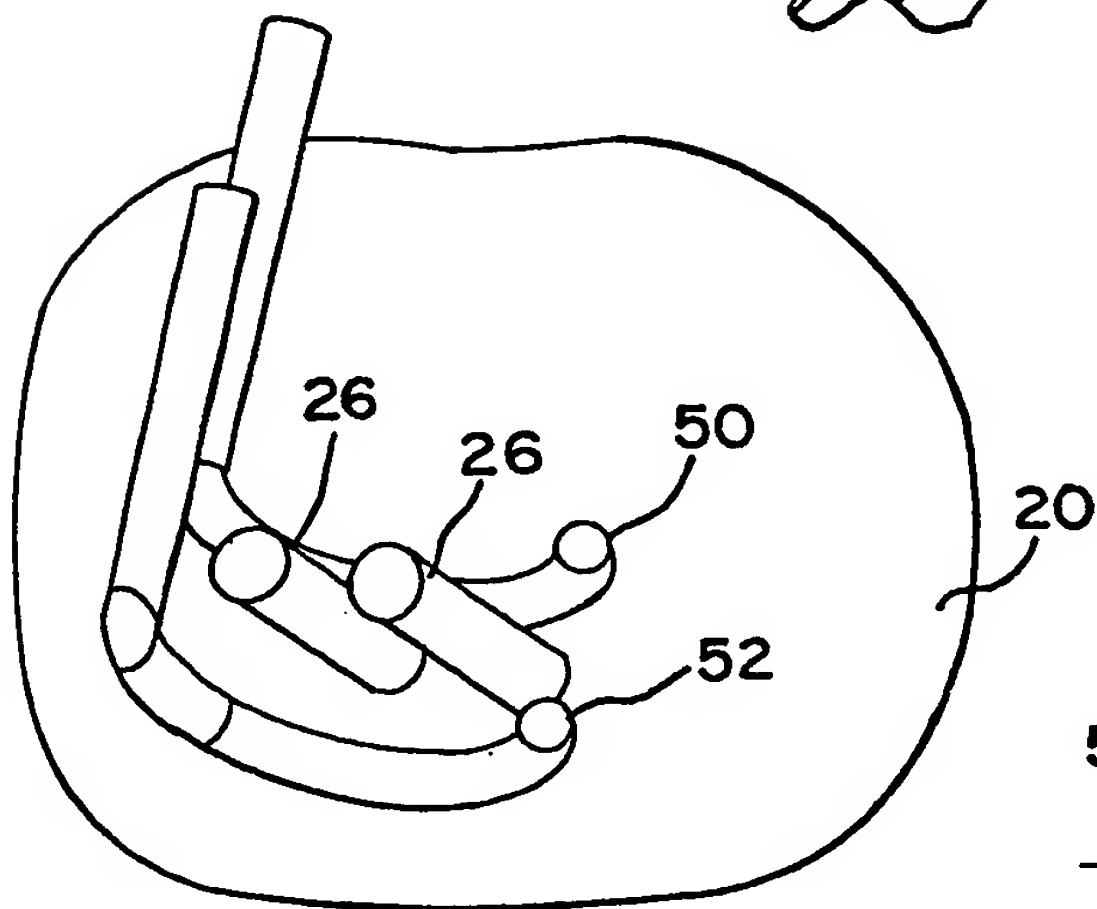


FIG.26

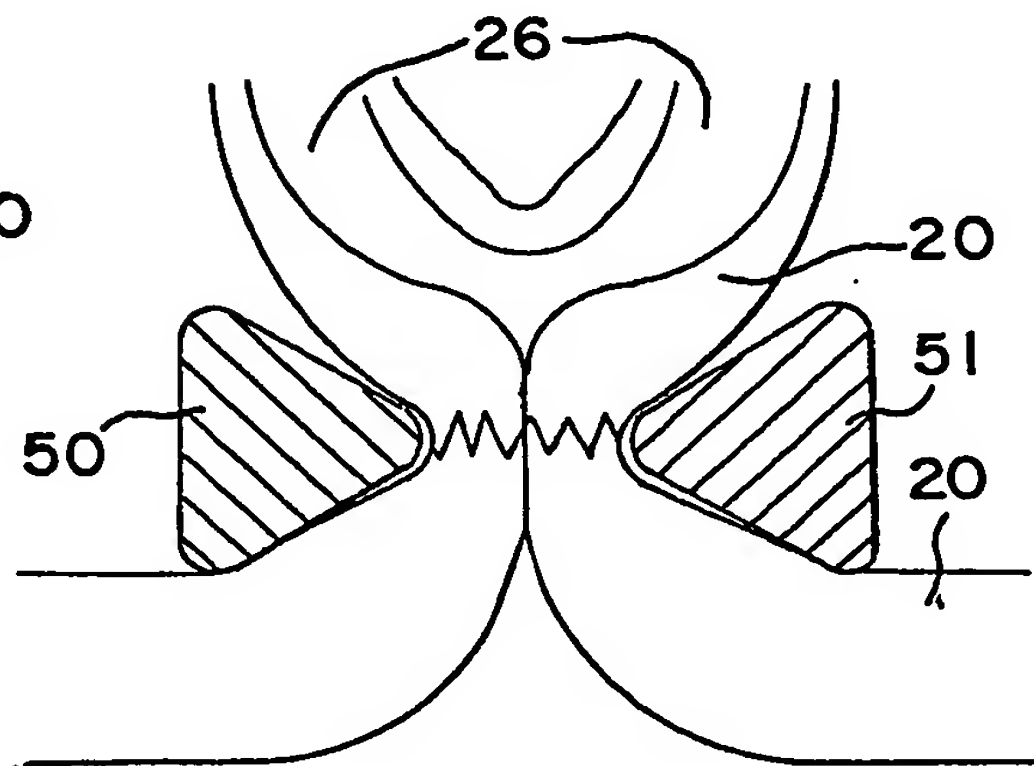


FIG.25

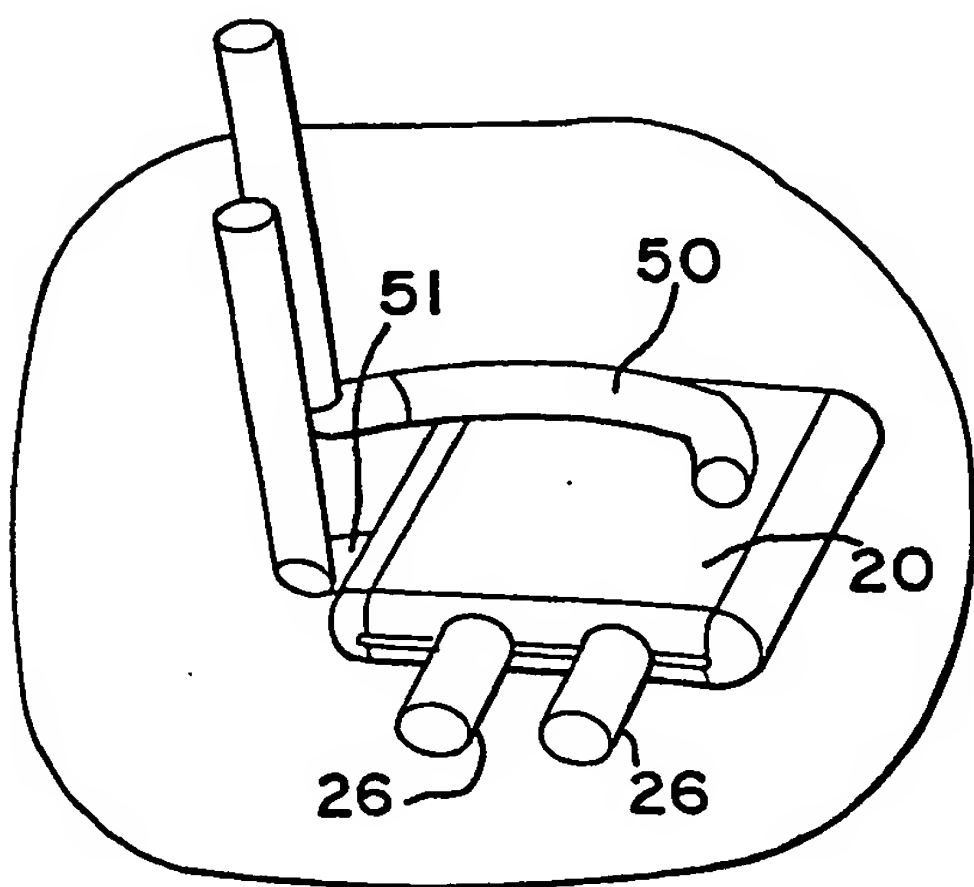


FIG.27

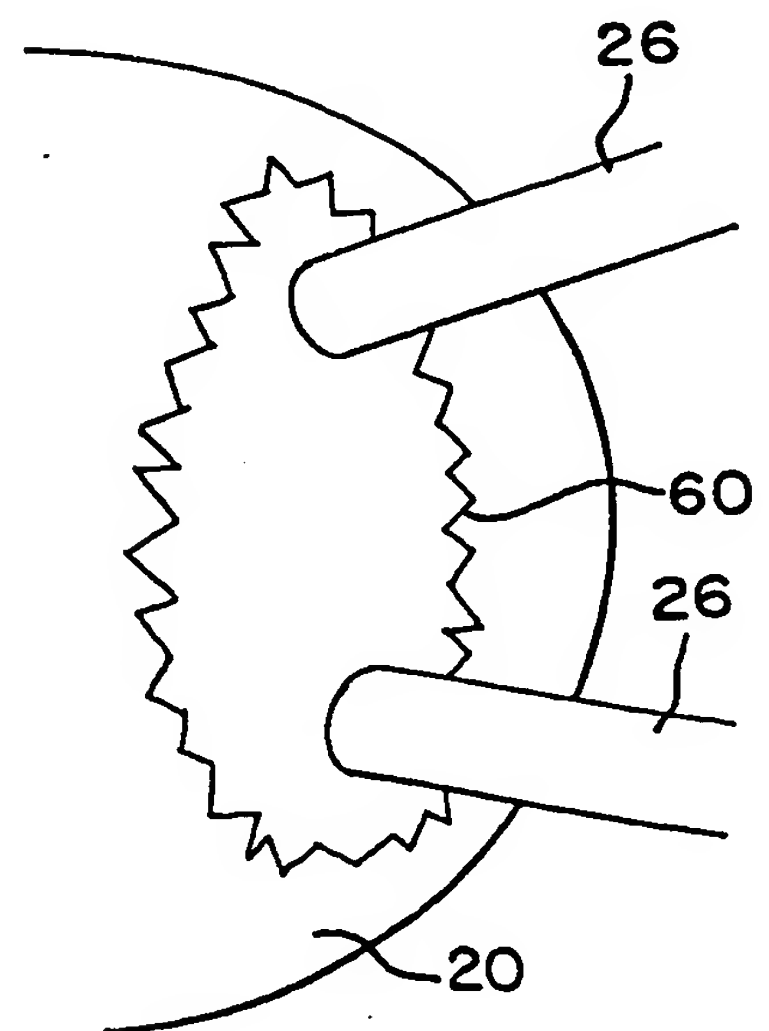


FIG. 28

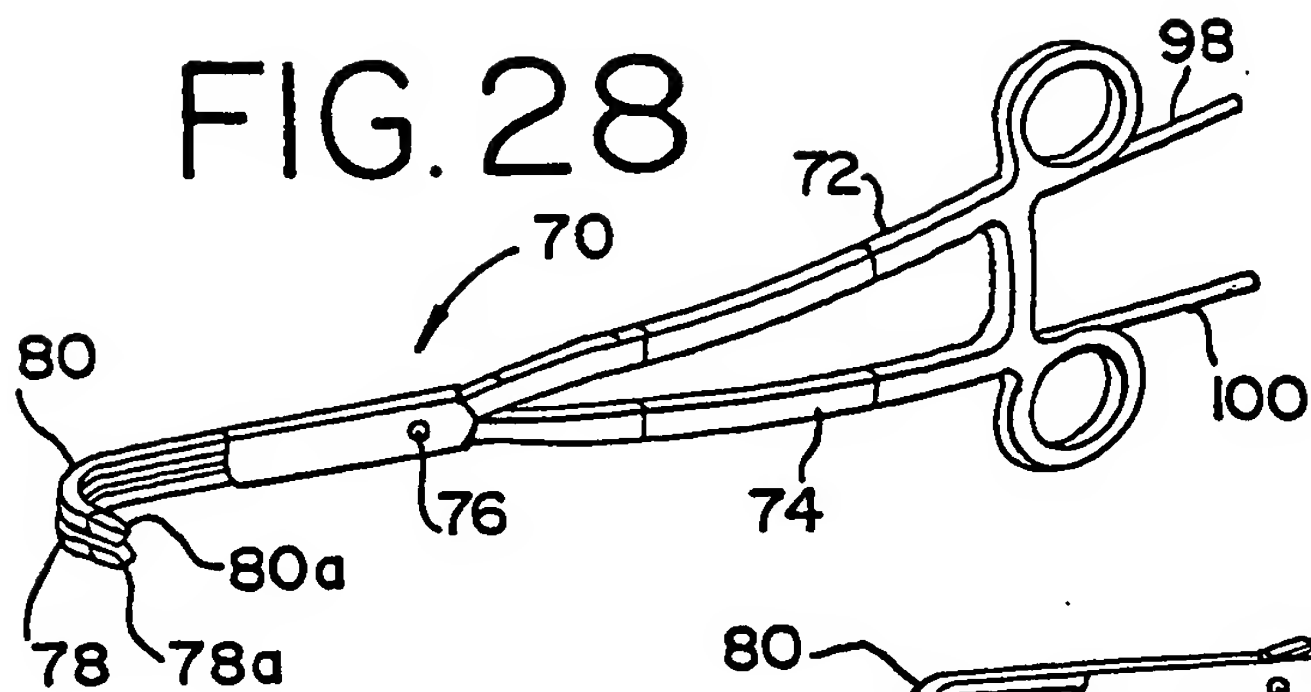


FIG. 29

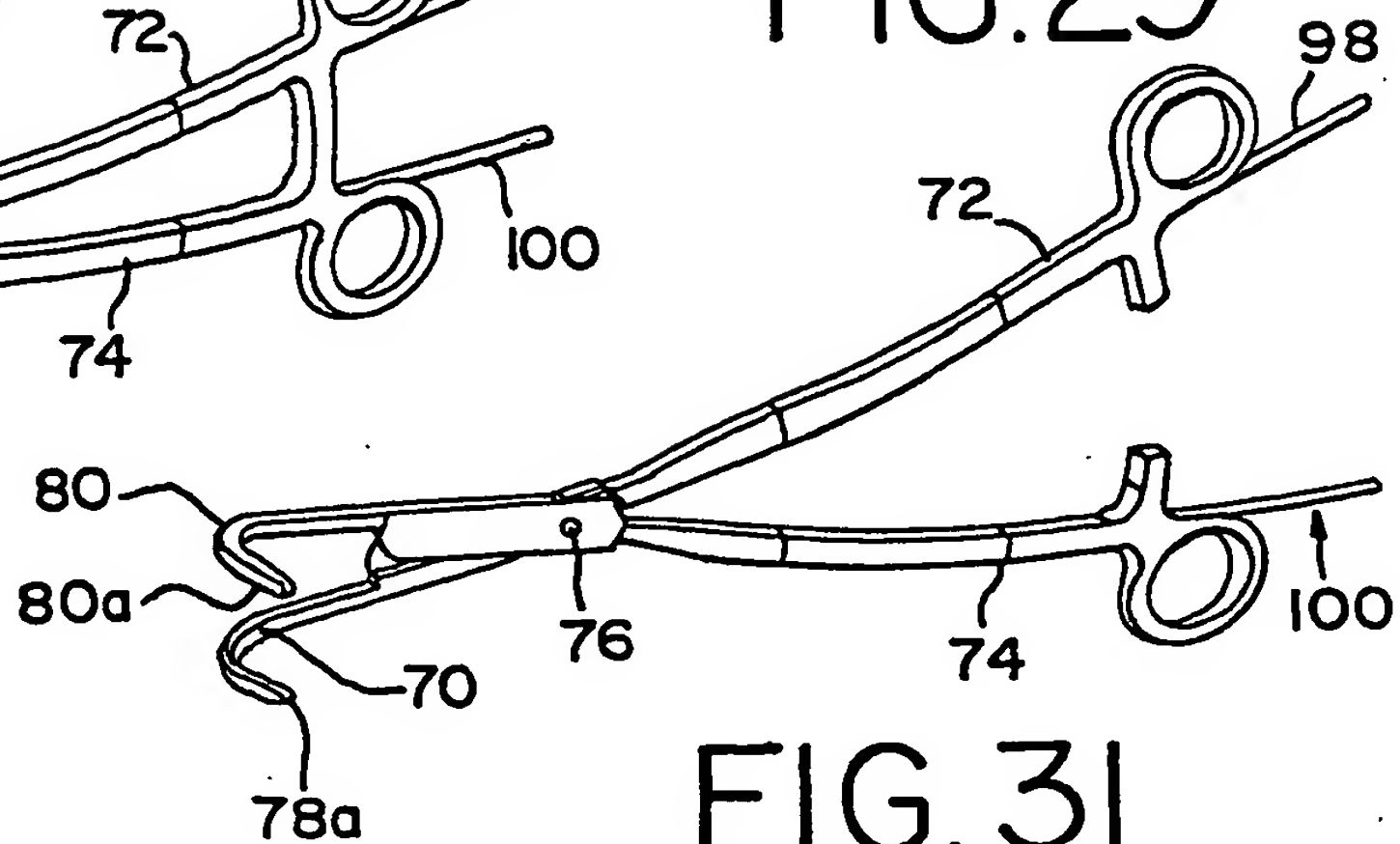


FIG. 30

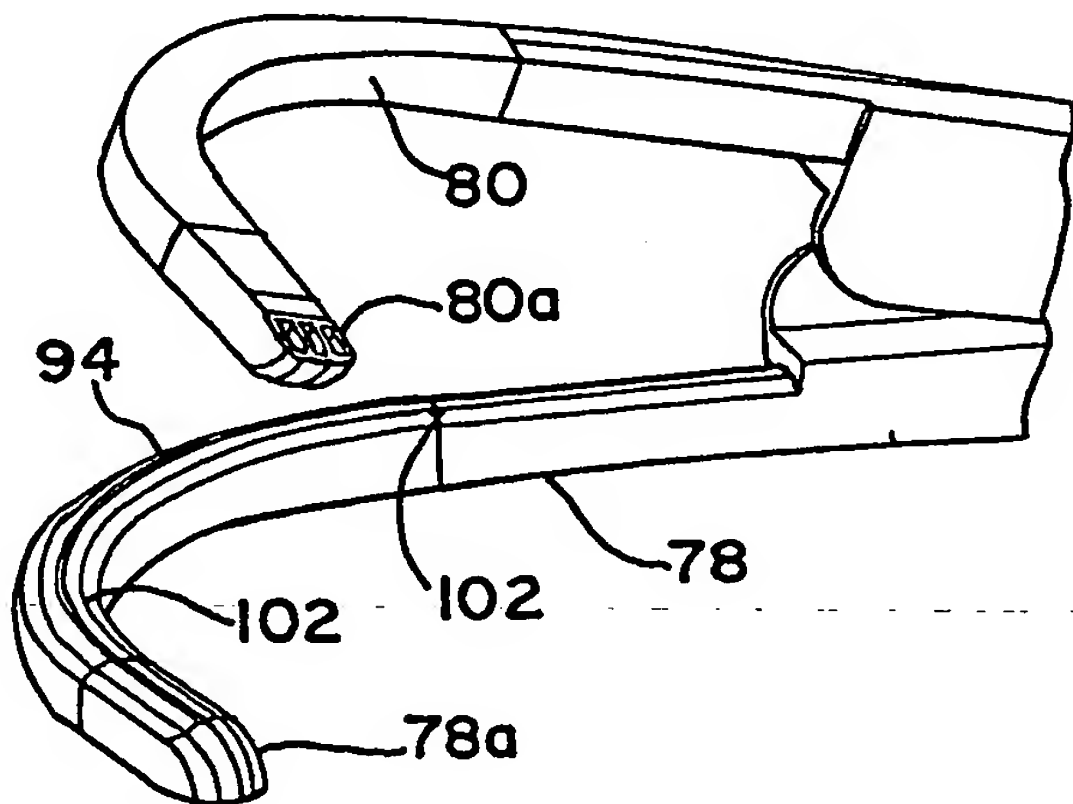
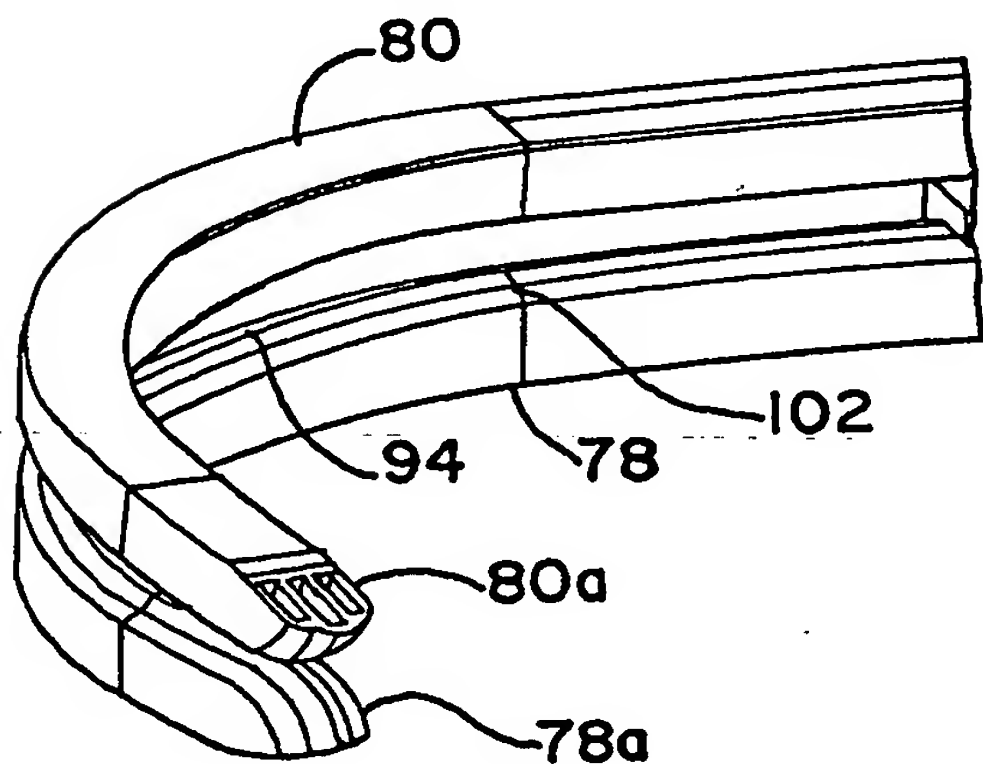
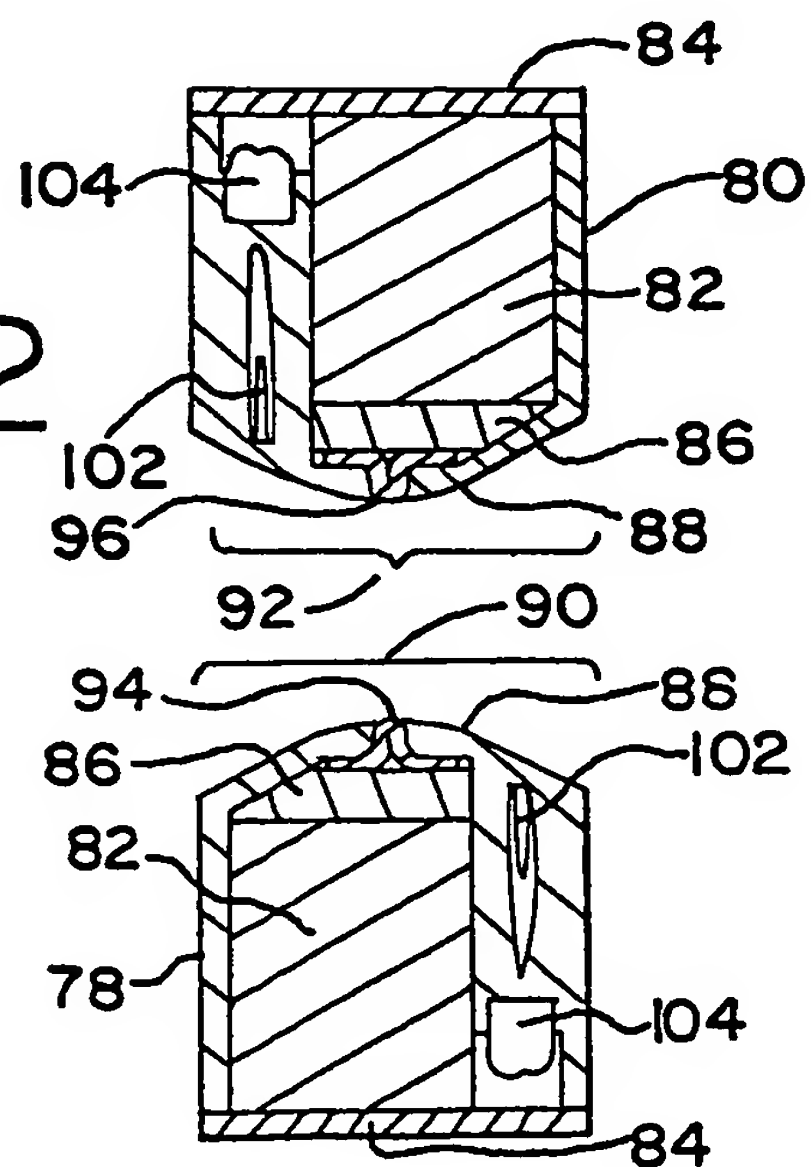


FIG. 32



# FIG. 33

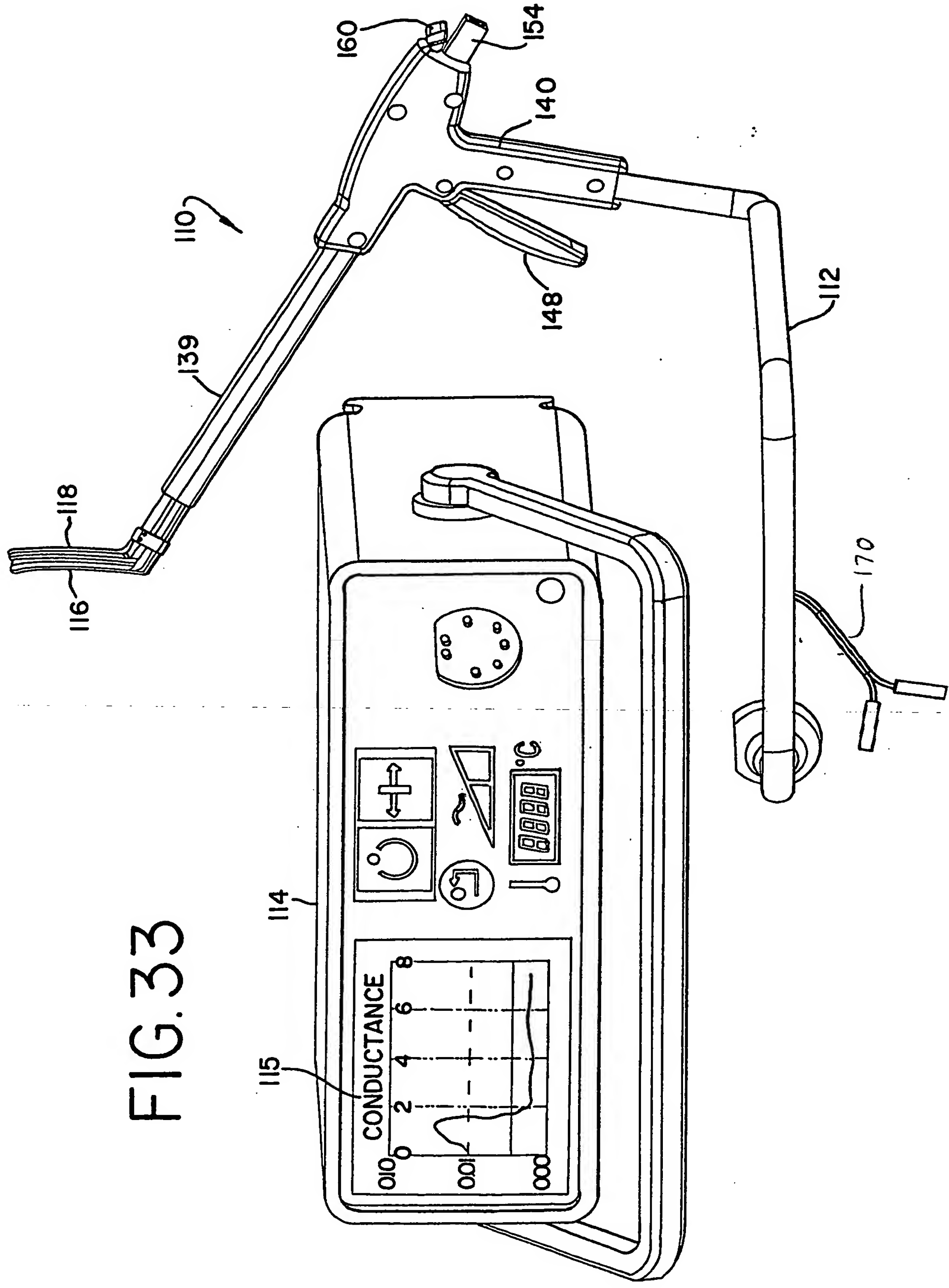




FIG. 34

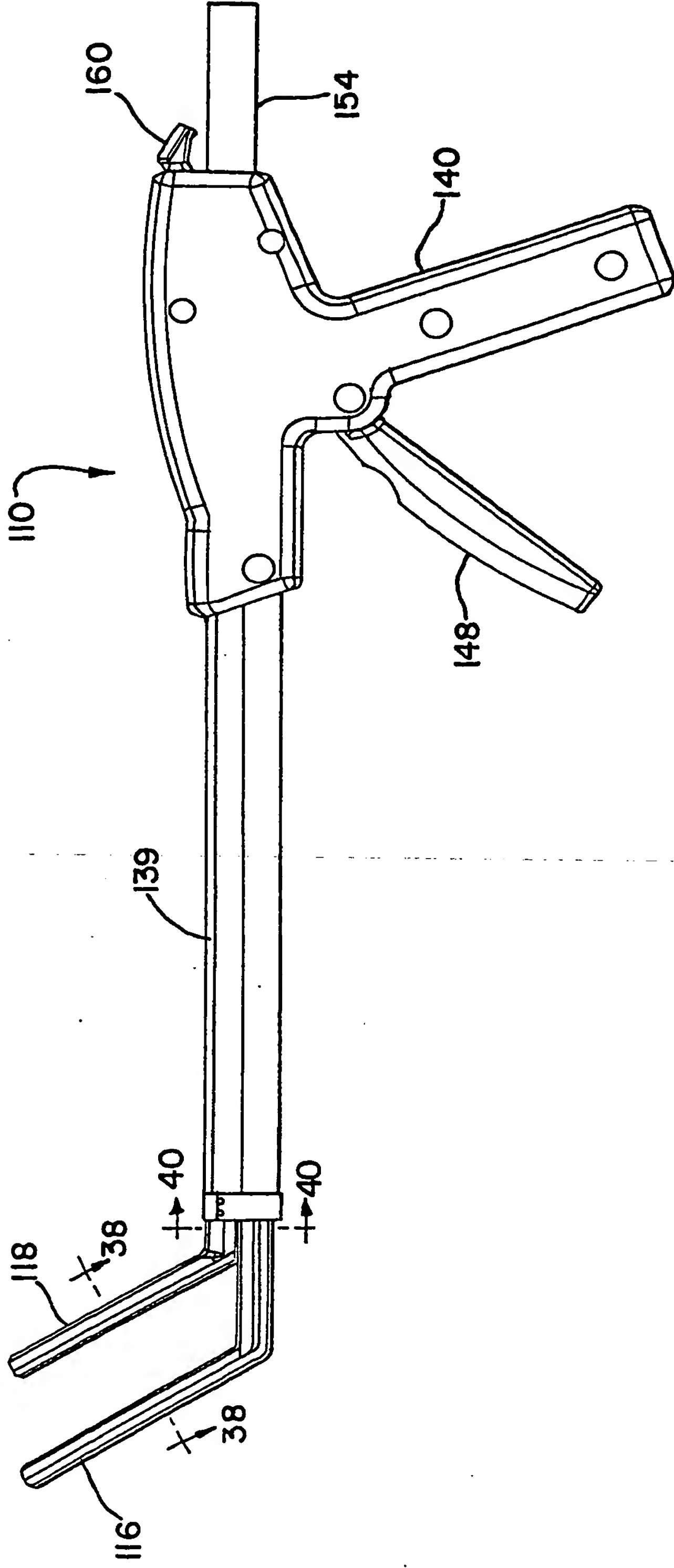
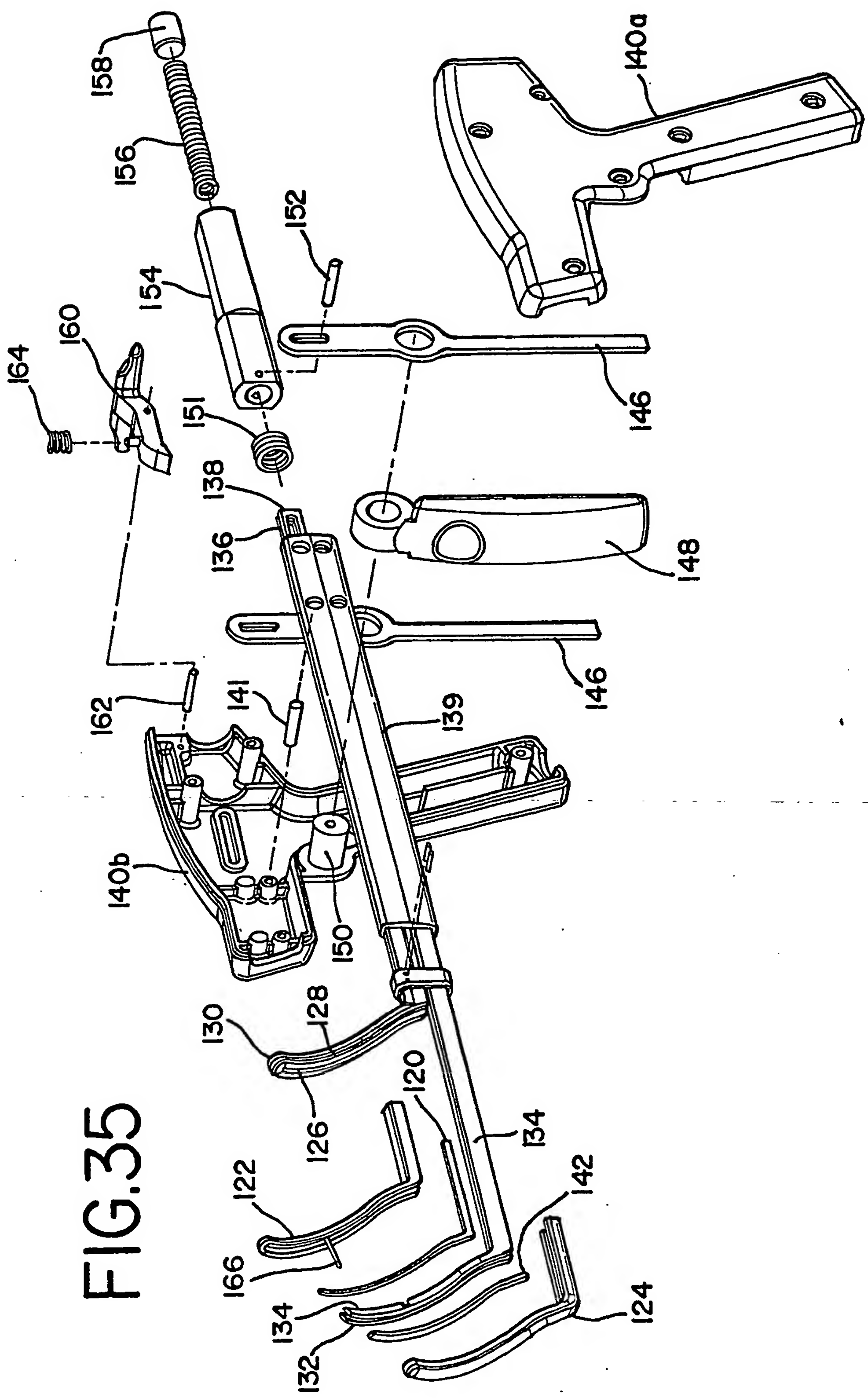


FIG.35



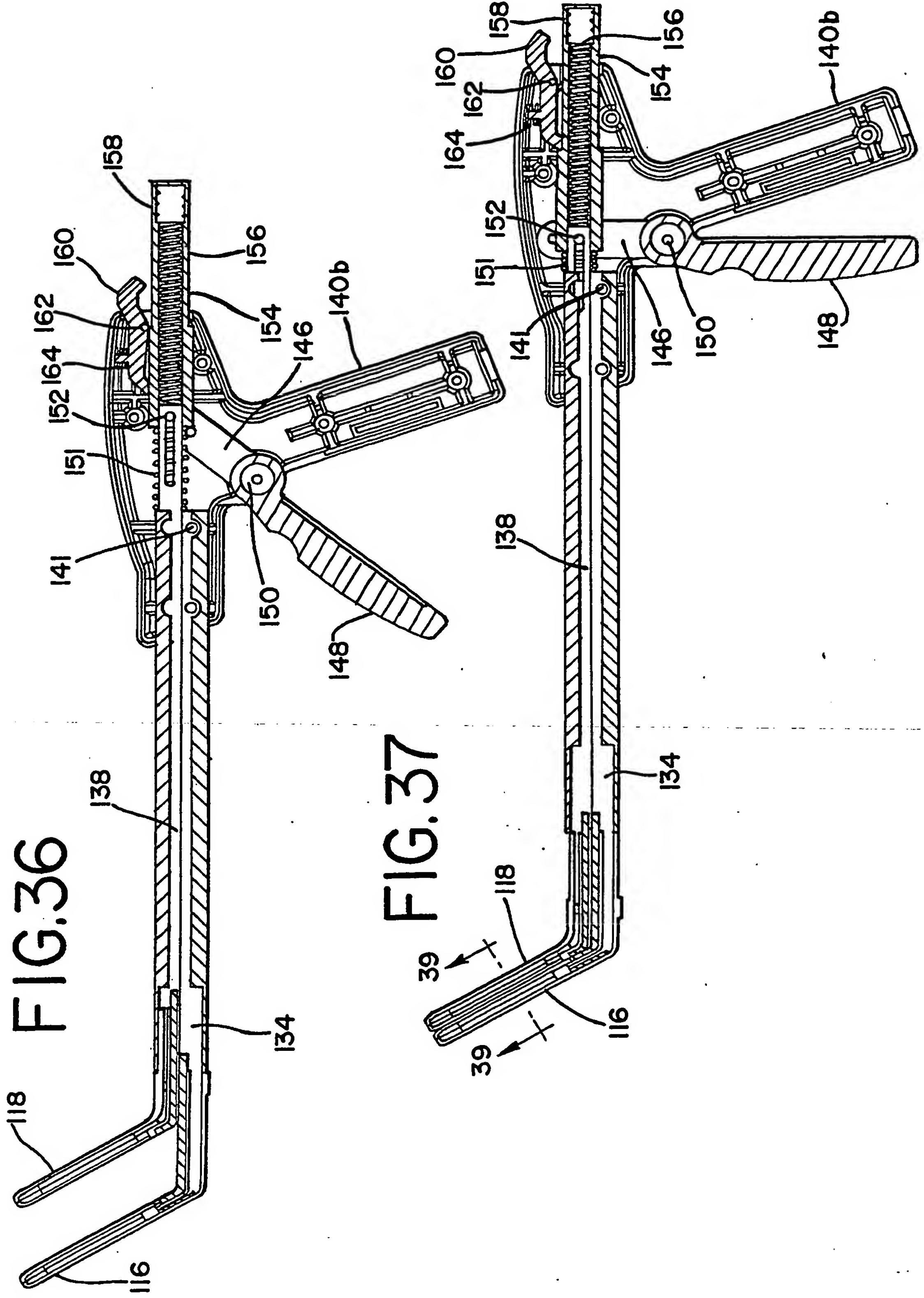
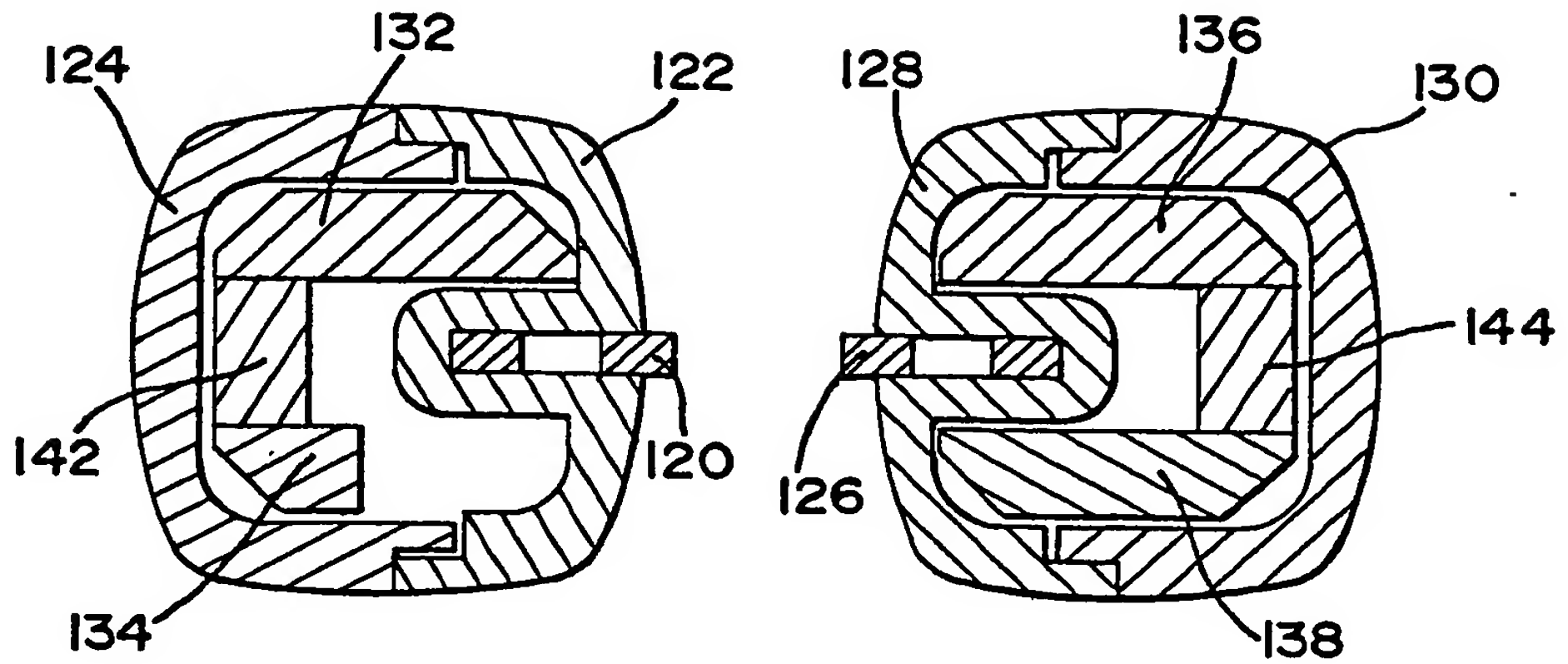
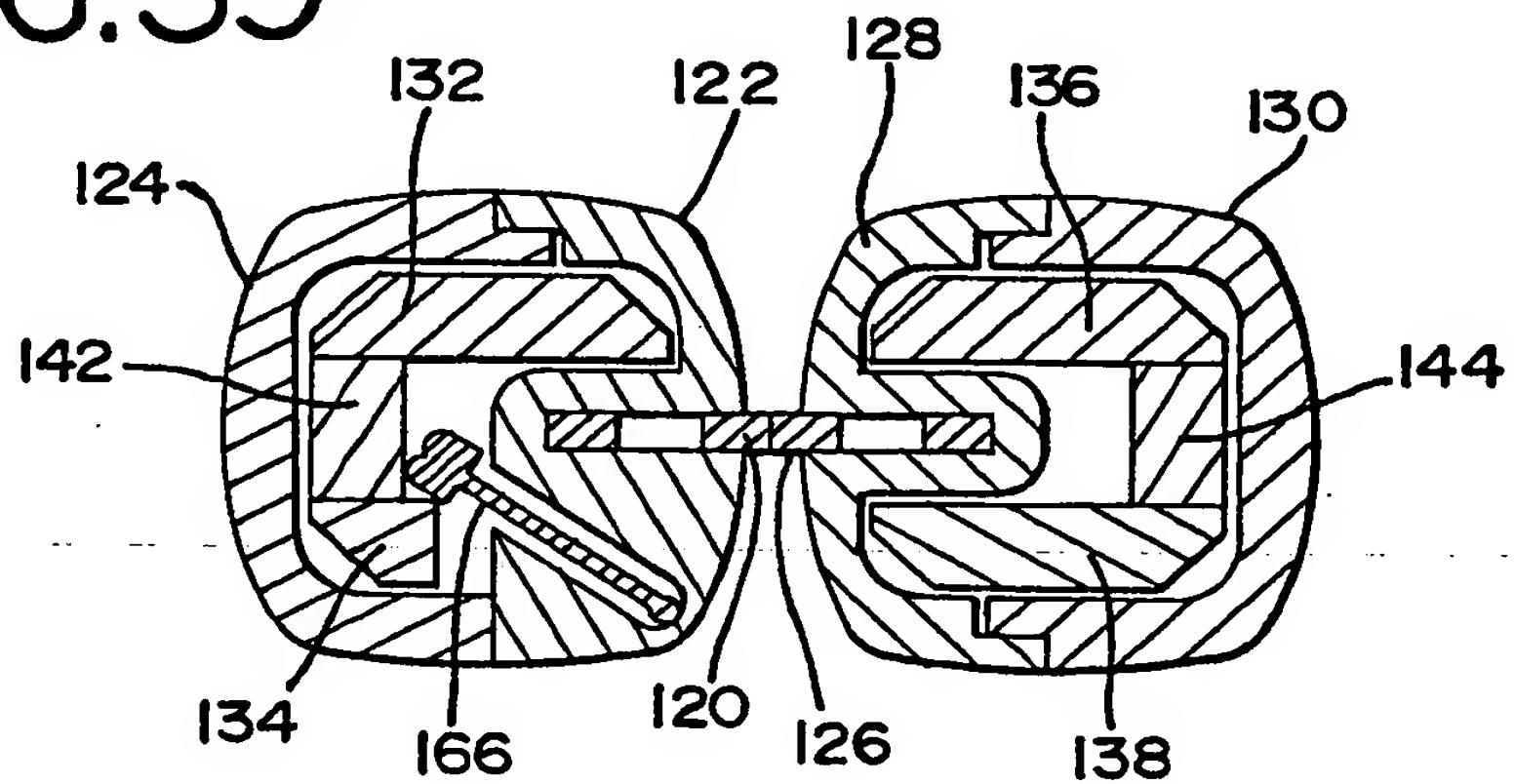


FIG. 37

# FIG.38



# FIG.39



# FIG.40

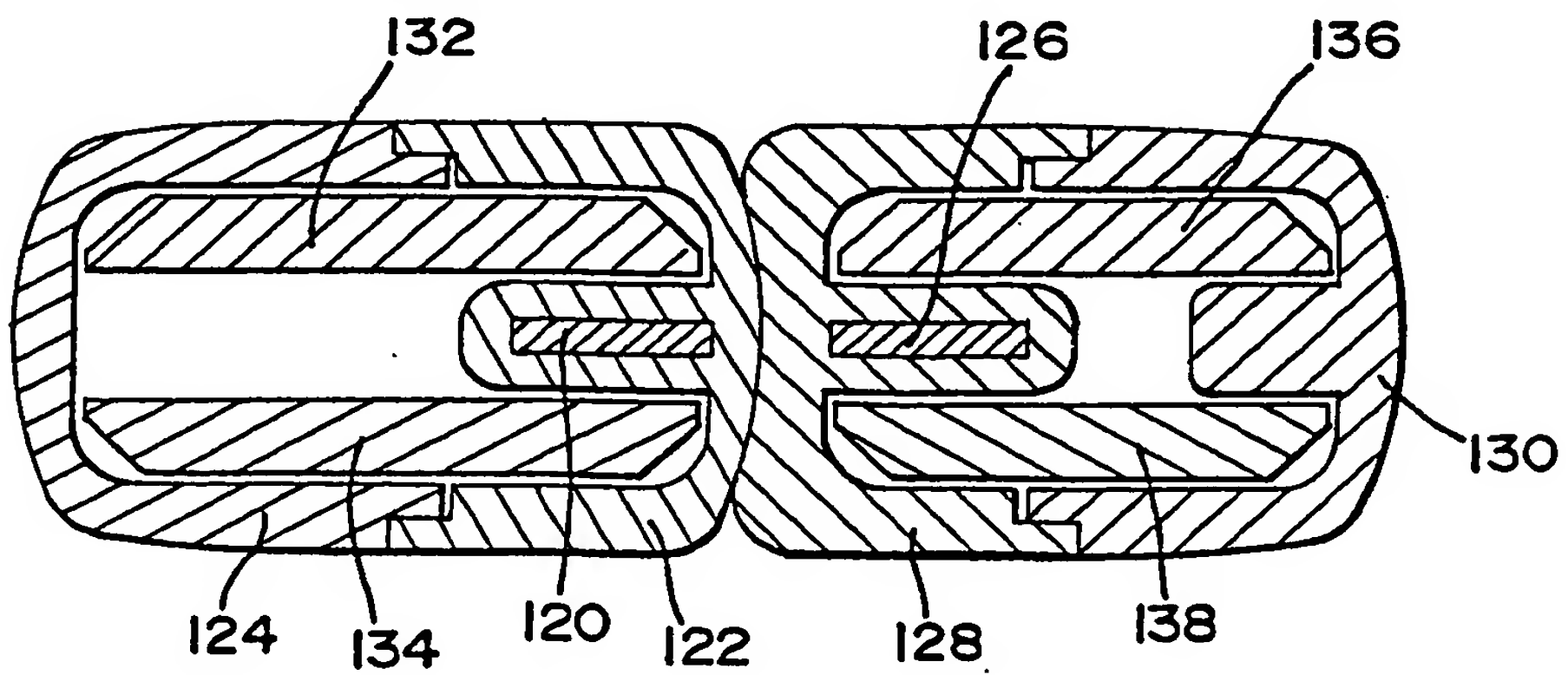


FIG.41

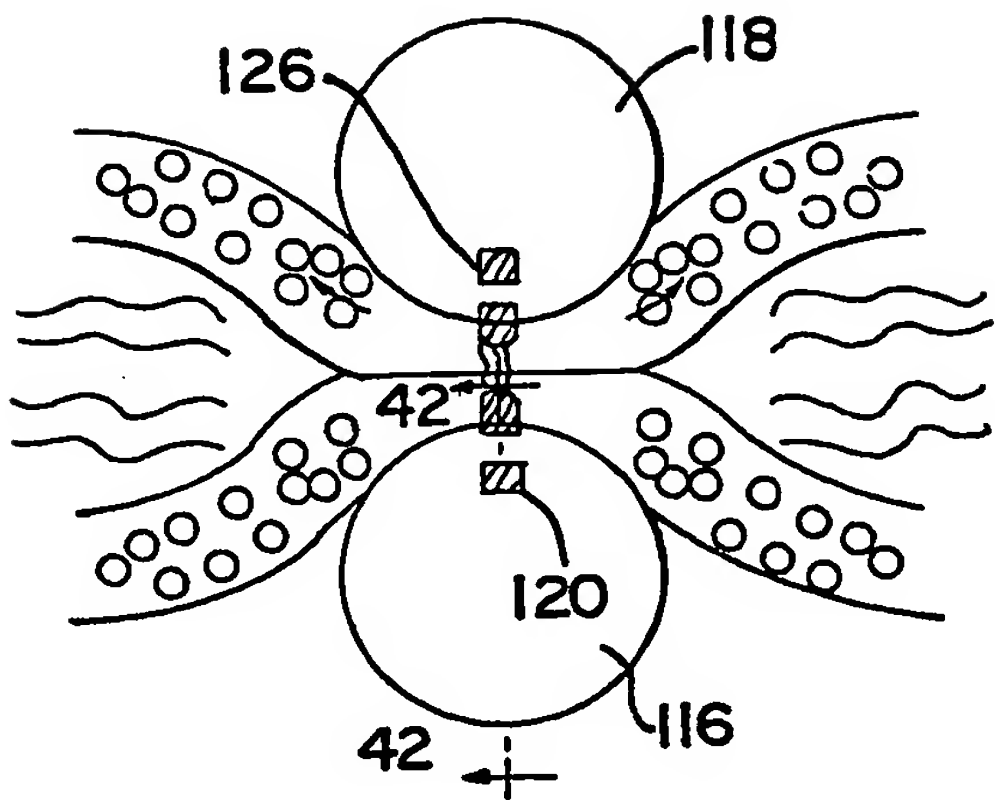


FIG.42

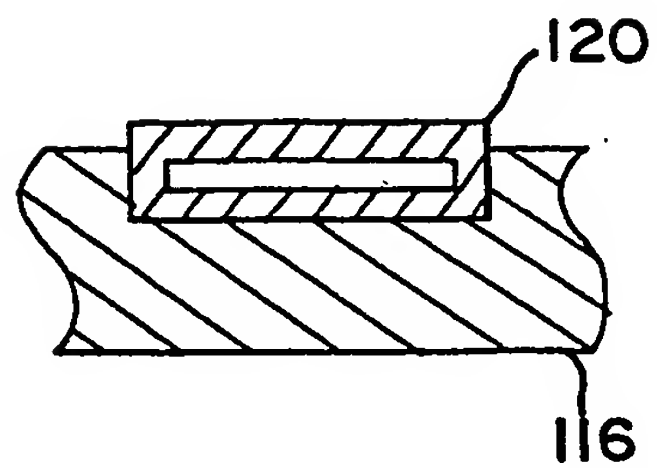


FIG.43

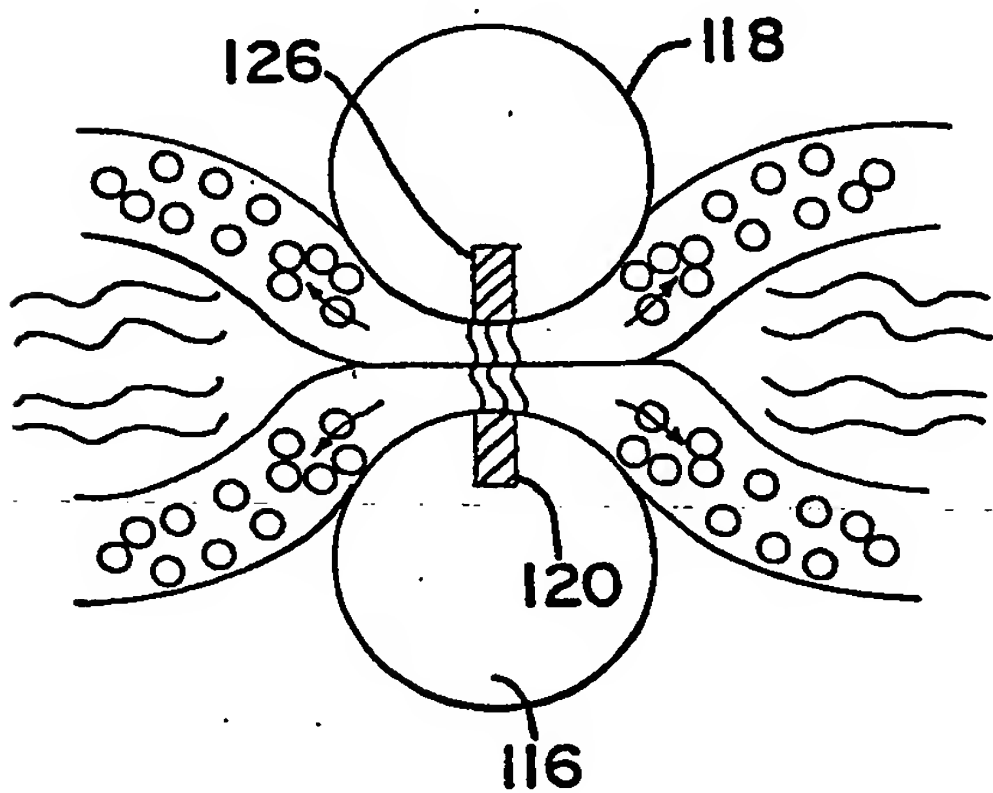


FIG.44

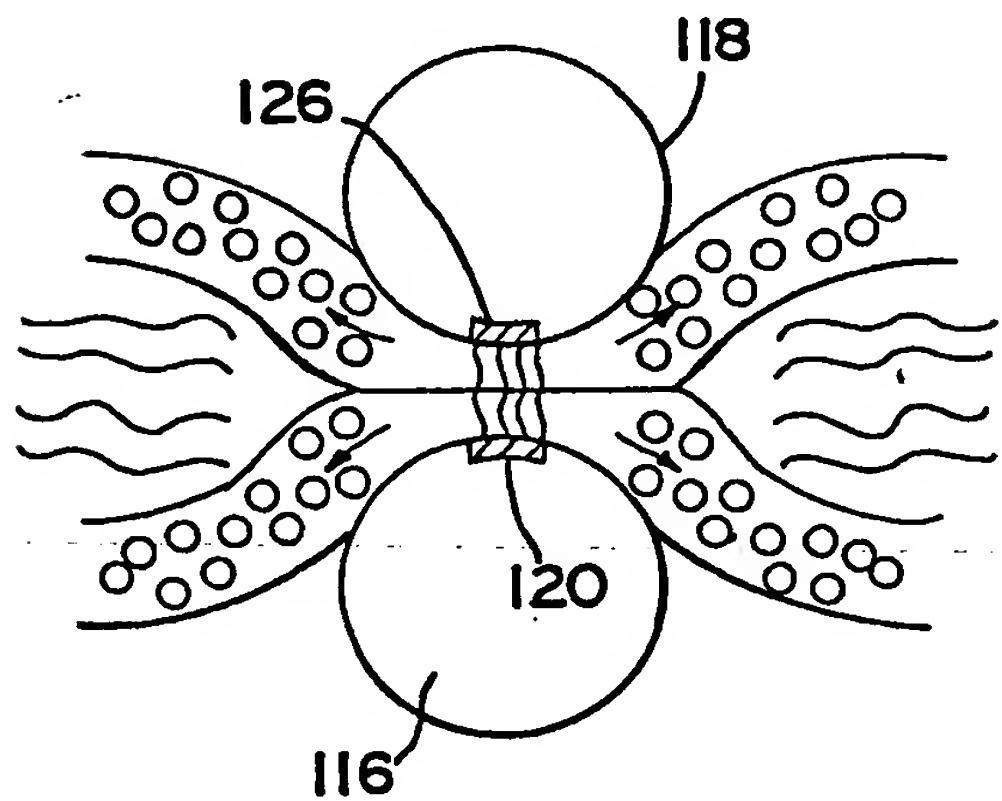


FIG.45

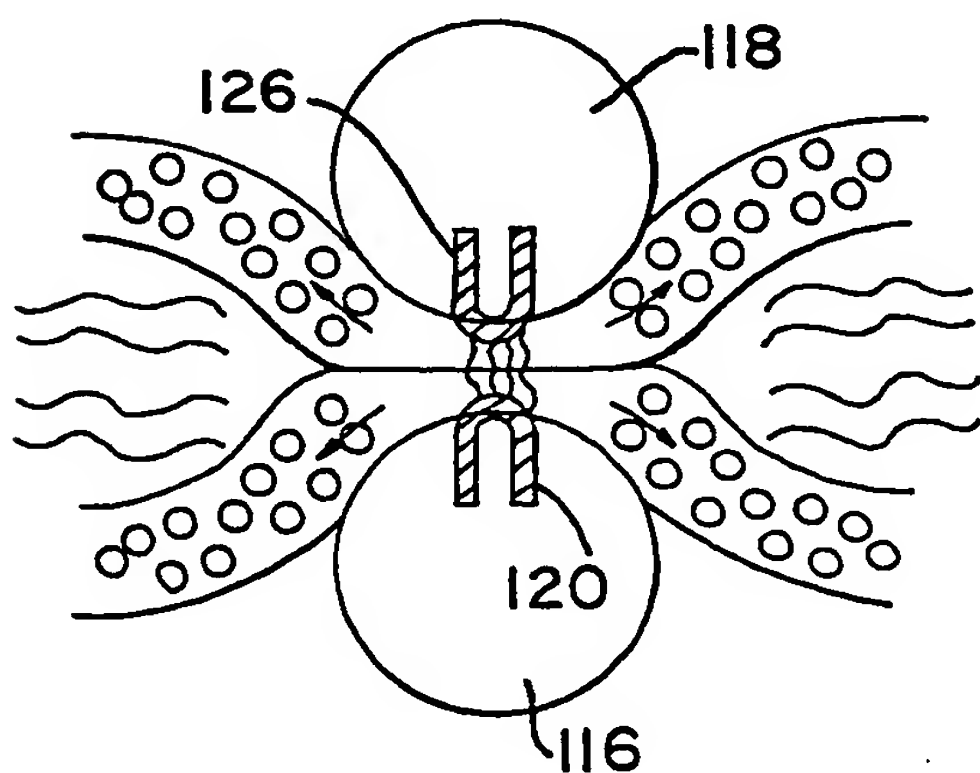


FIG.46

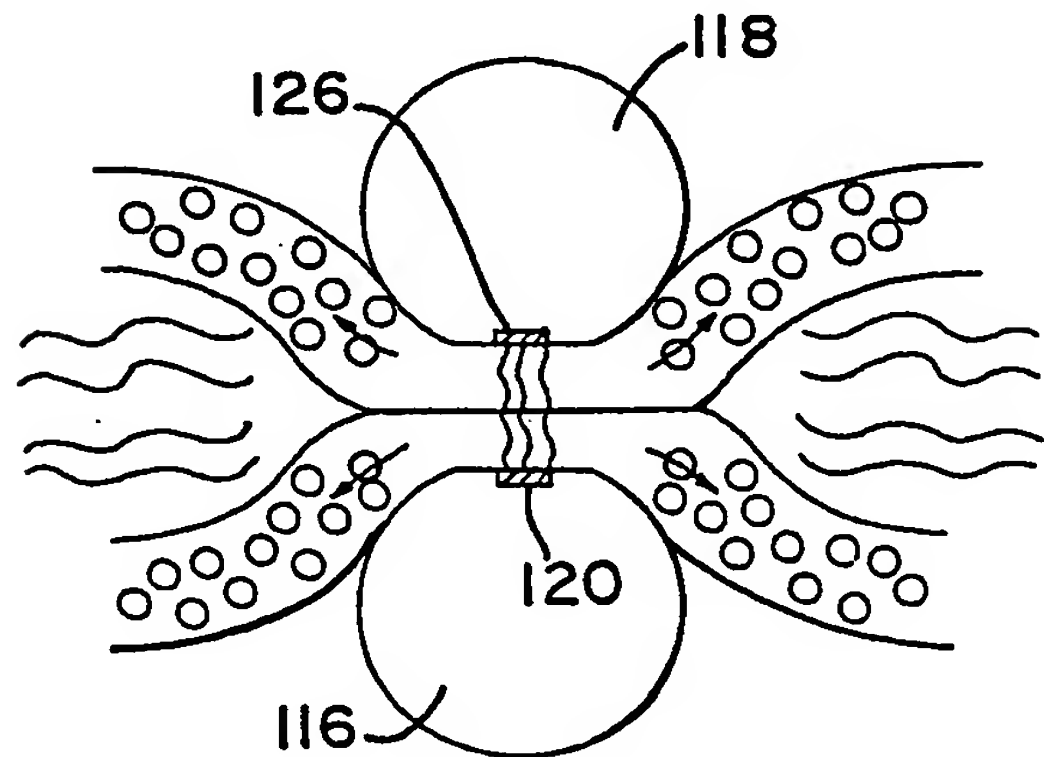


FIG.47

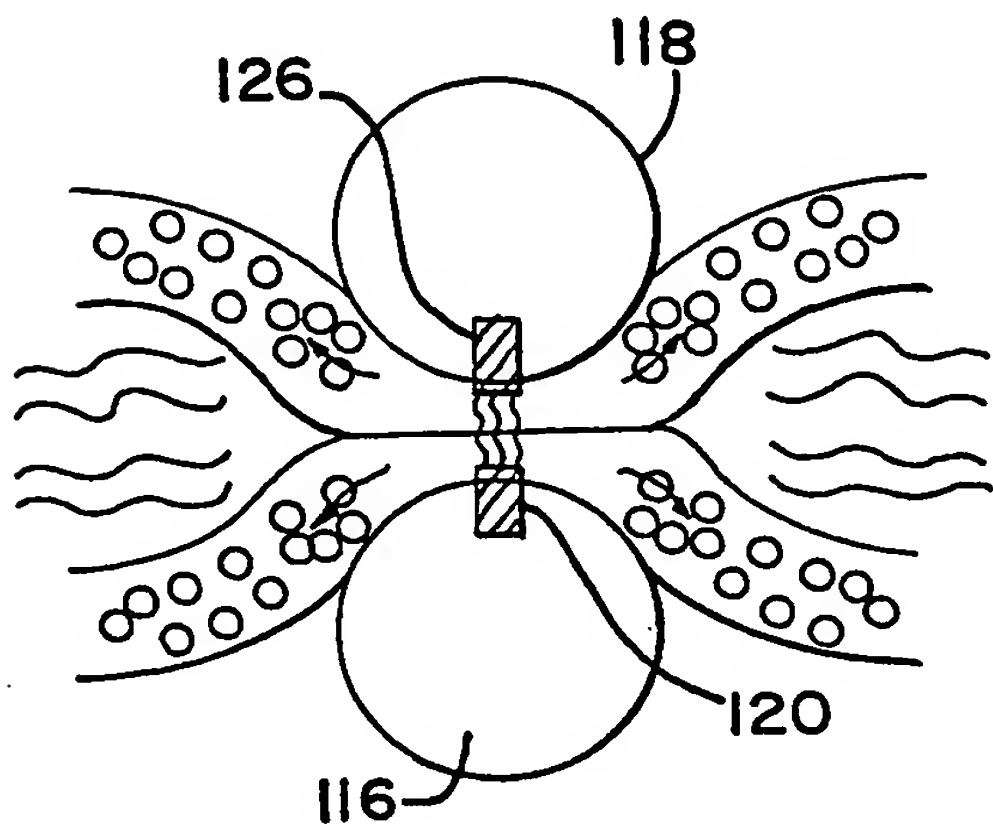


FIG.48

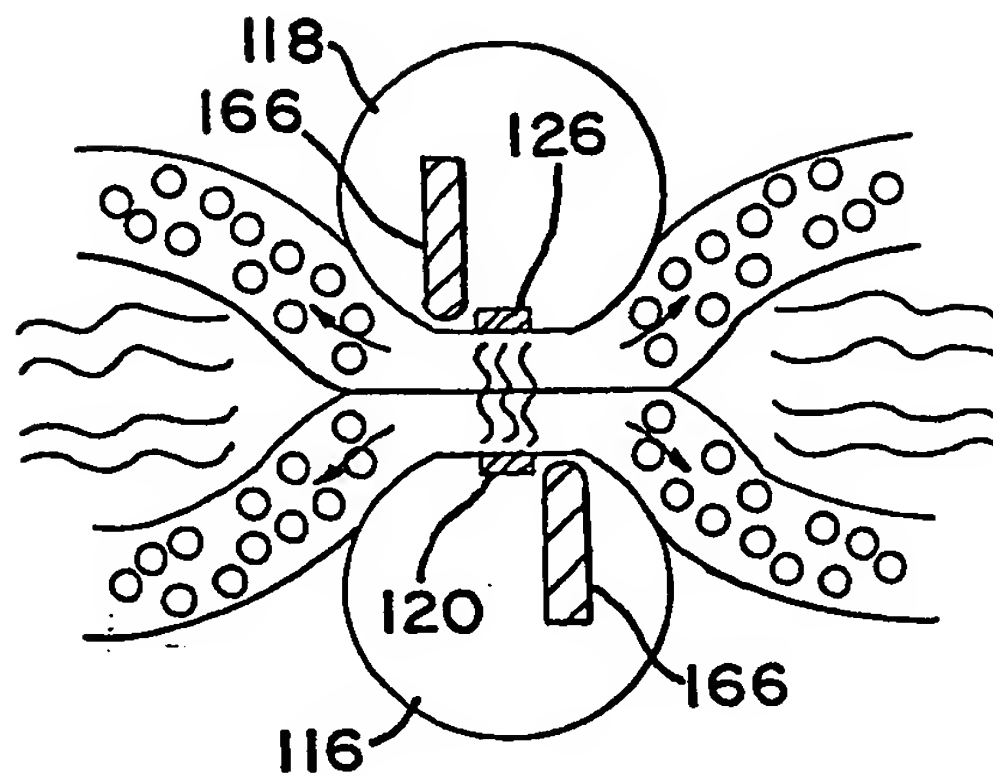


FIG.49

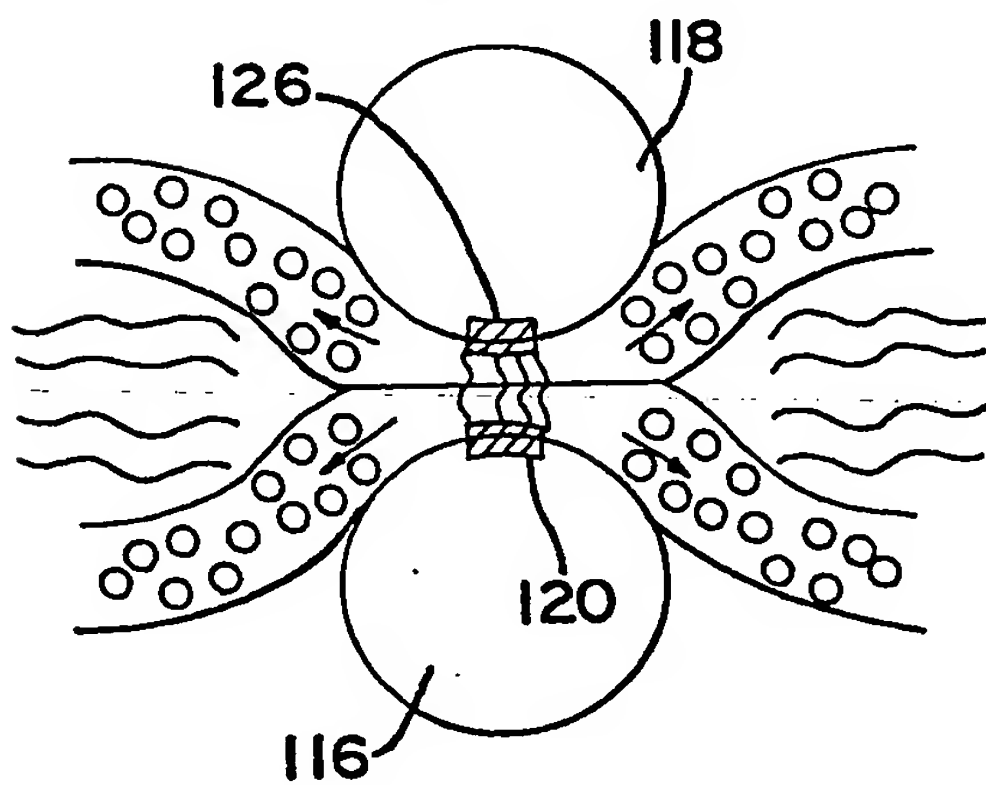


FIG.50

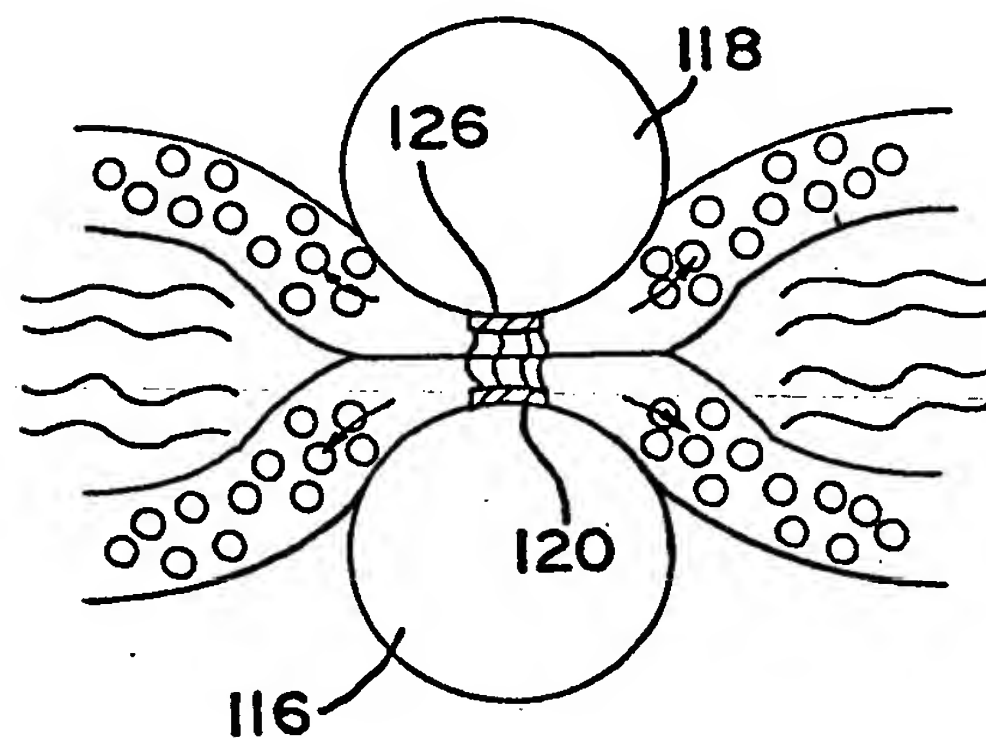
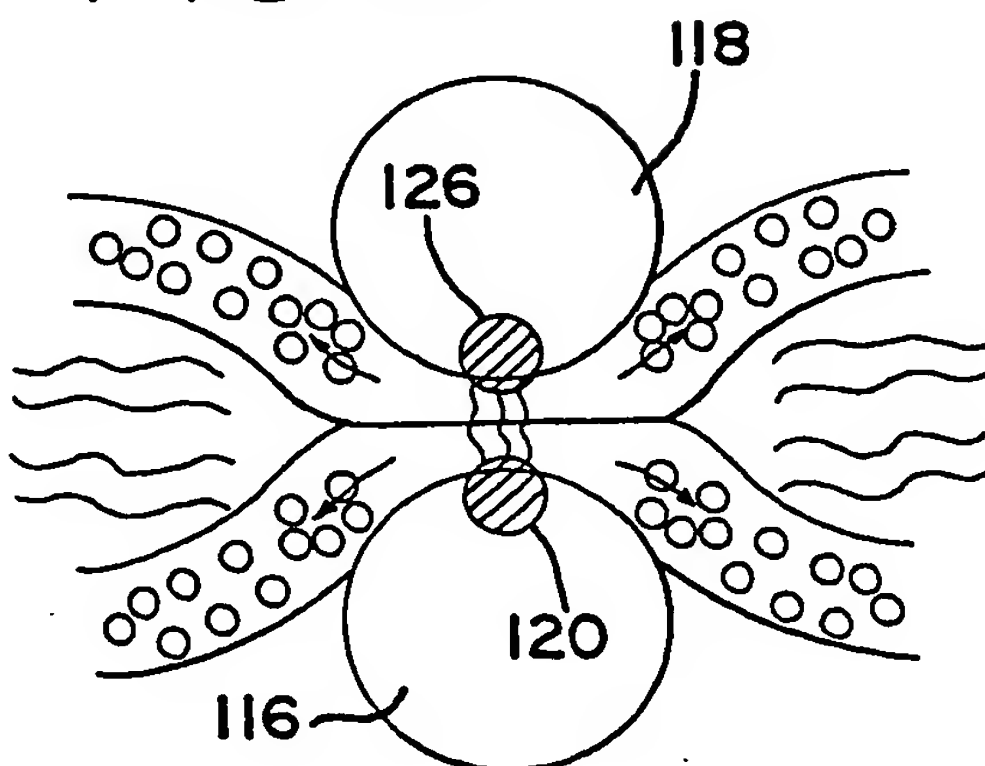
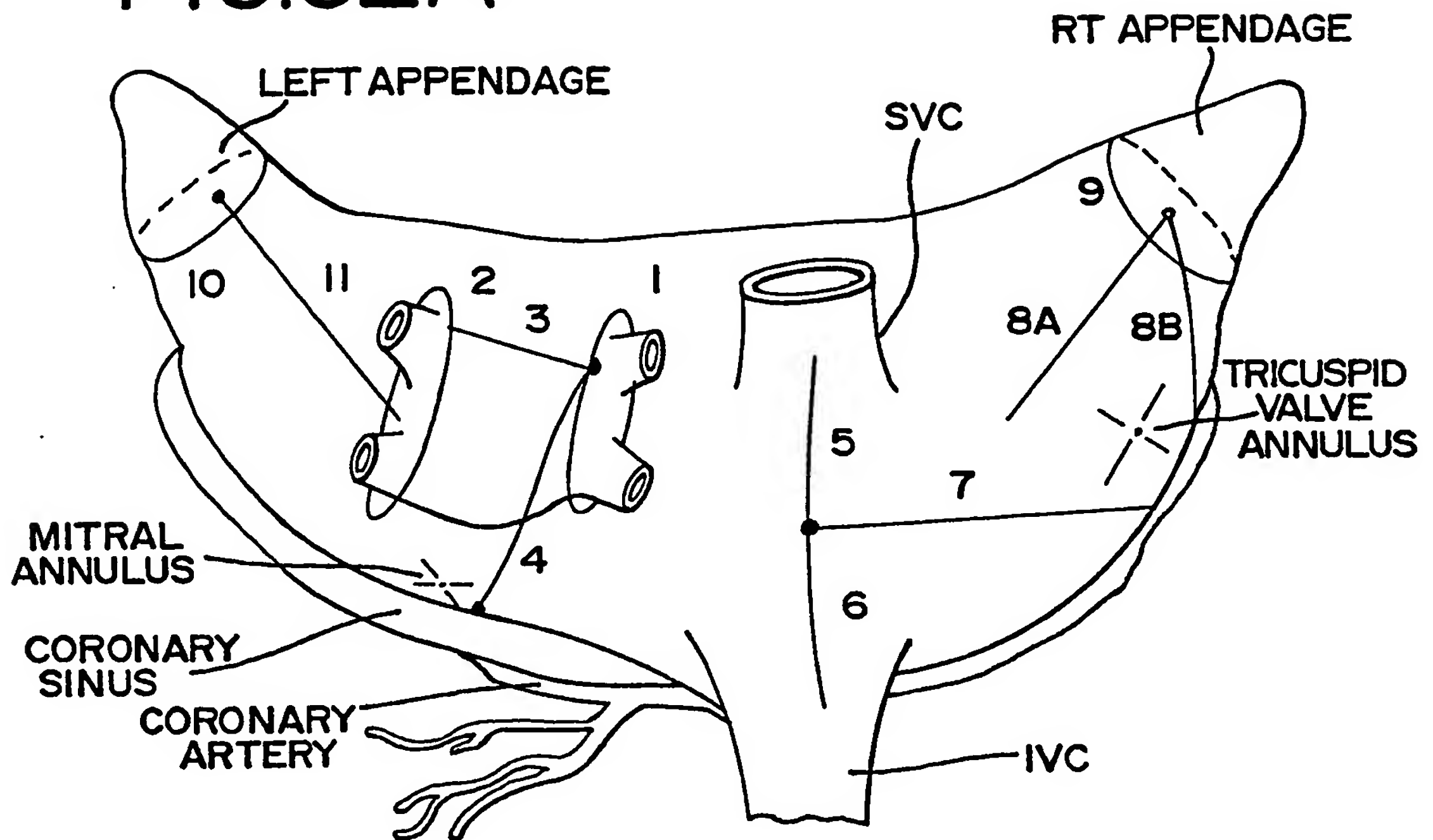


FIG.51



# FIG.52A



# FIG.52B

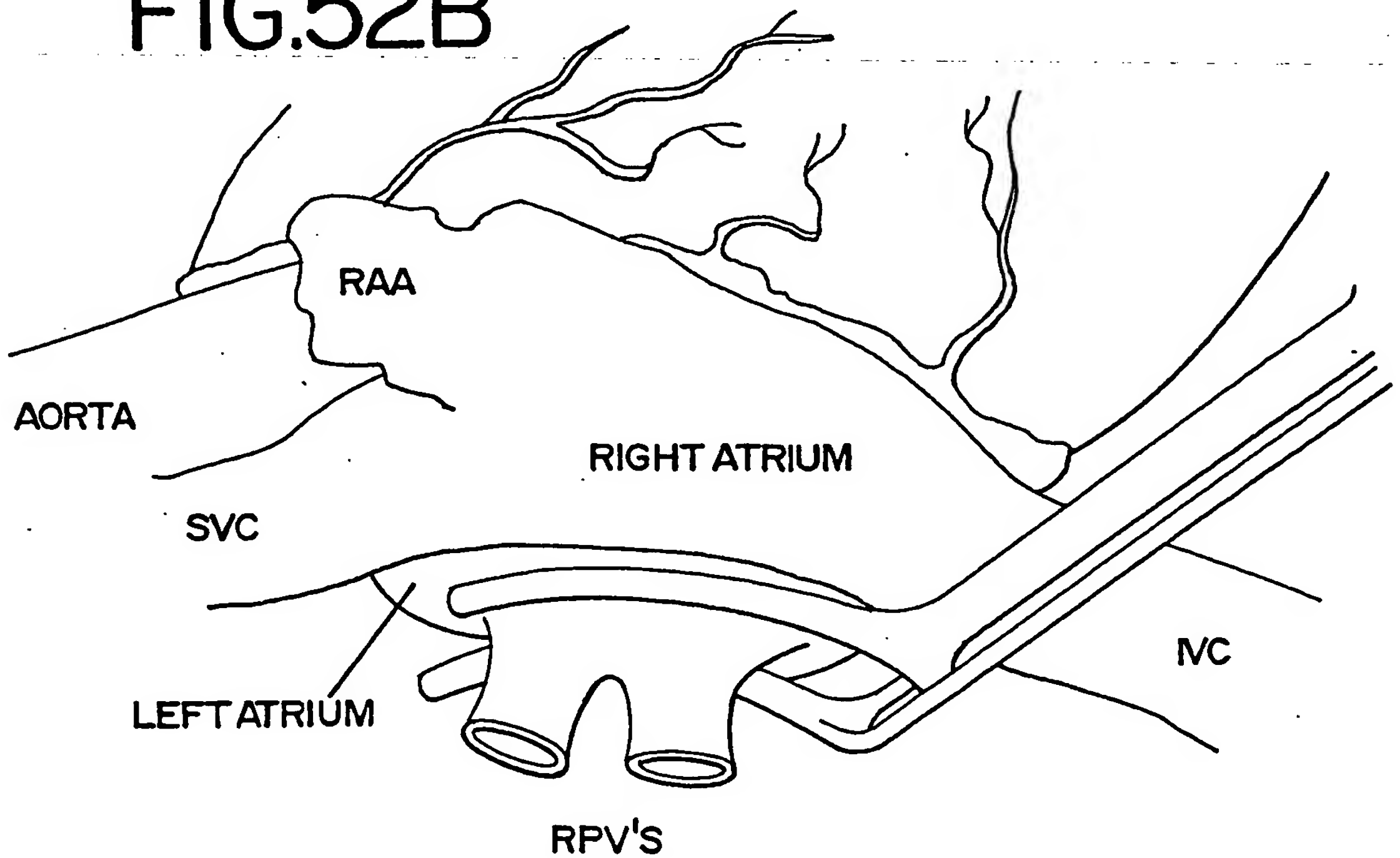


FIG.52C

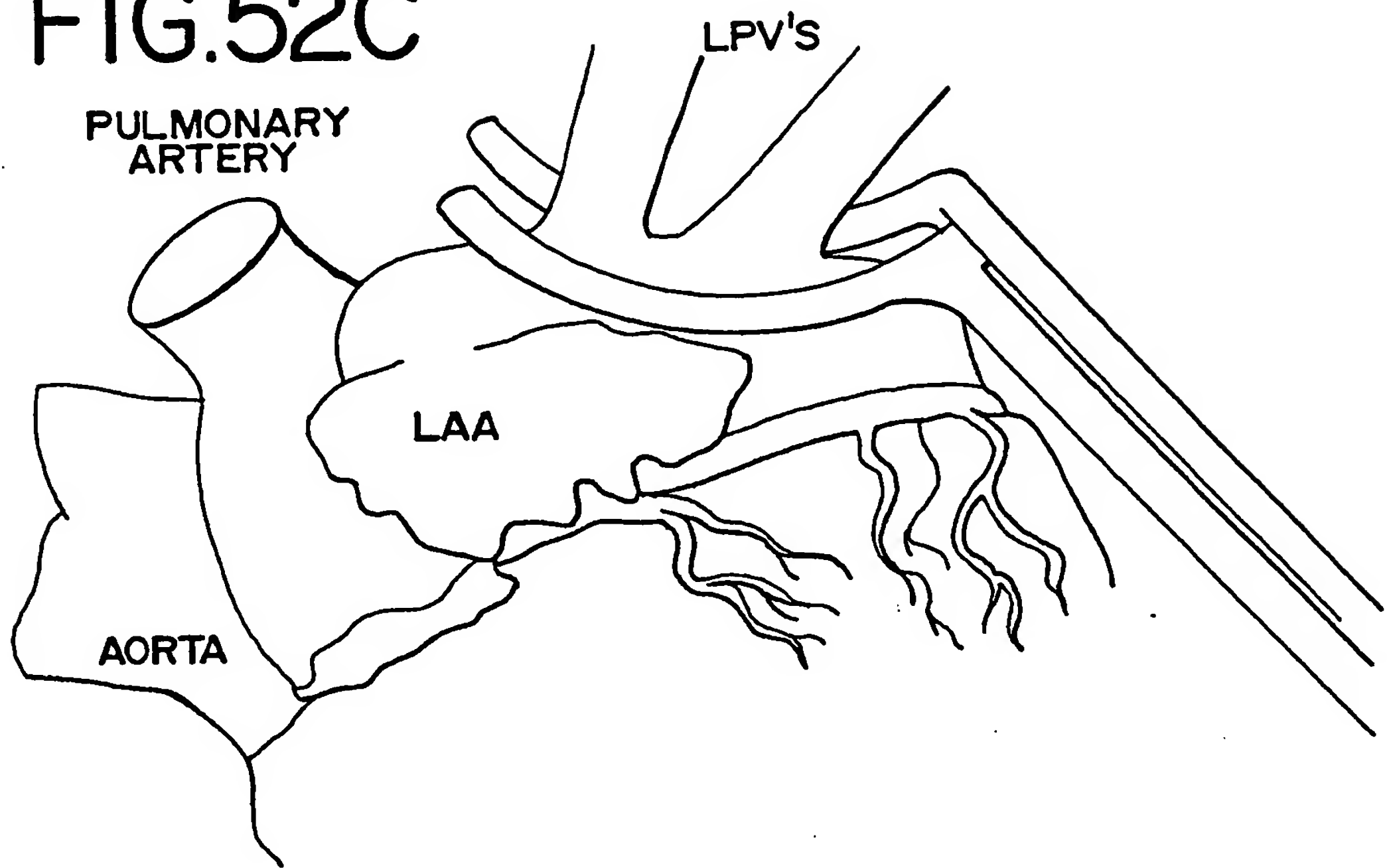


FIG.52D HEART LIFTED

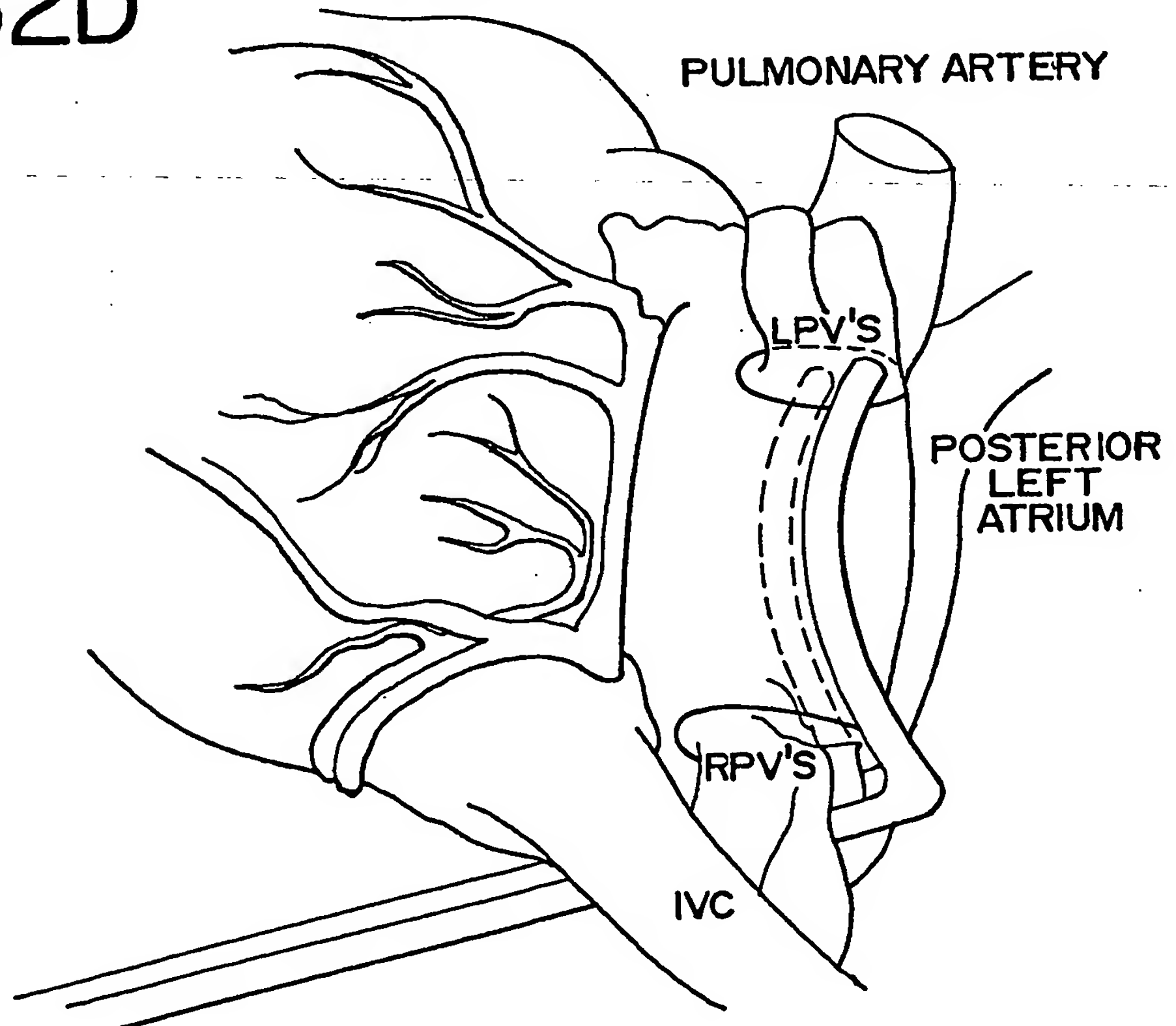




FIG.52E

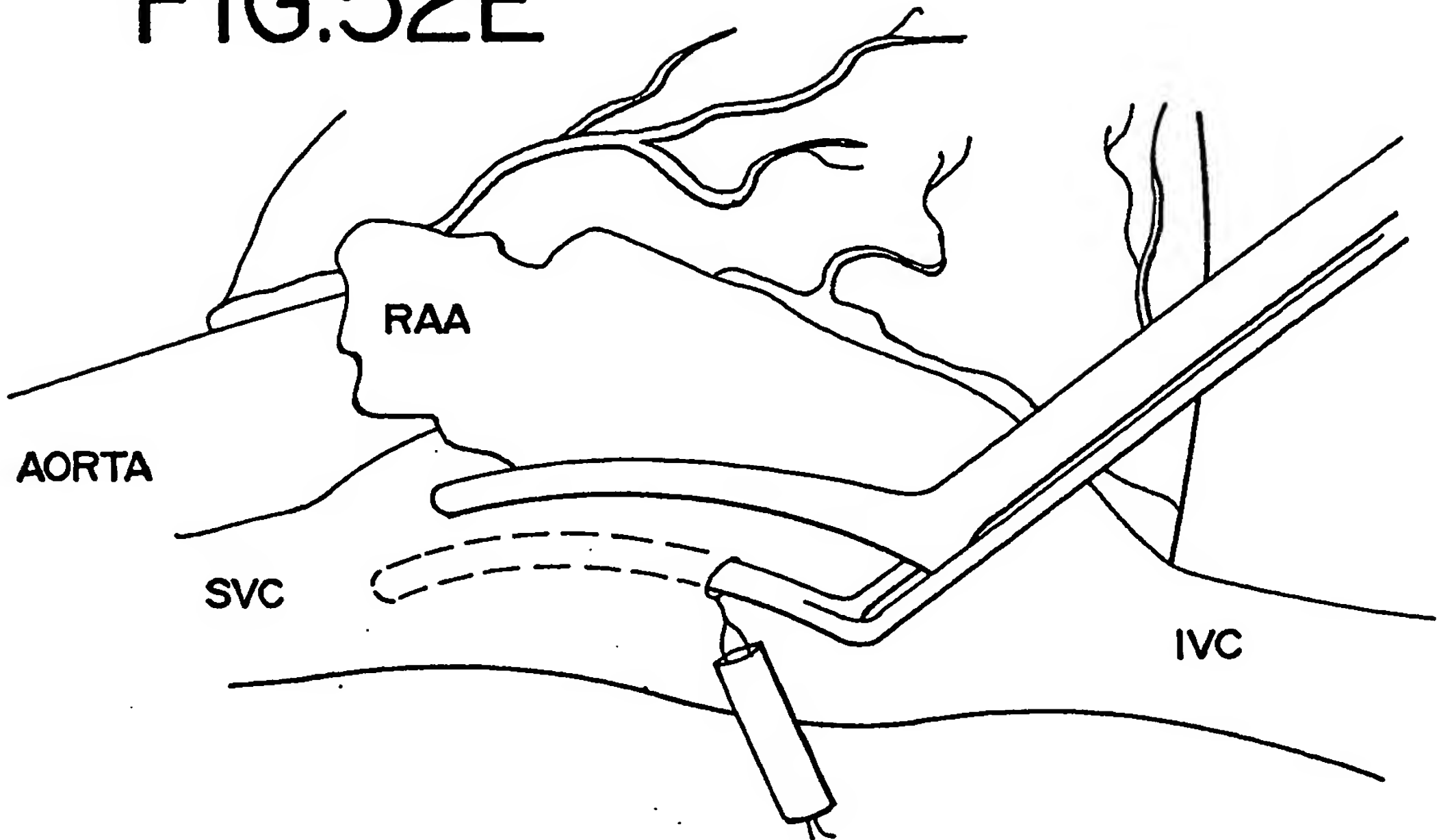


FIG.52F

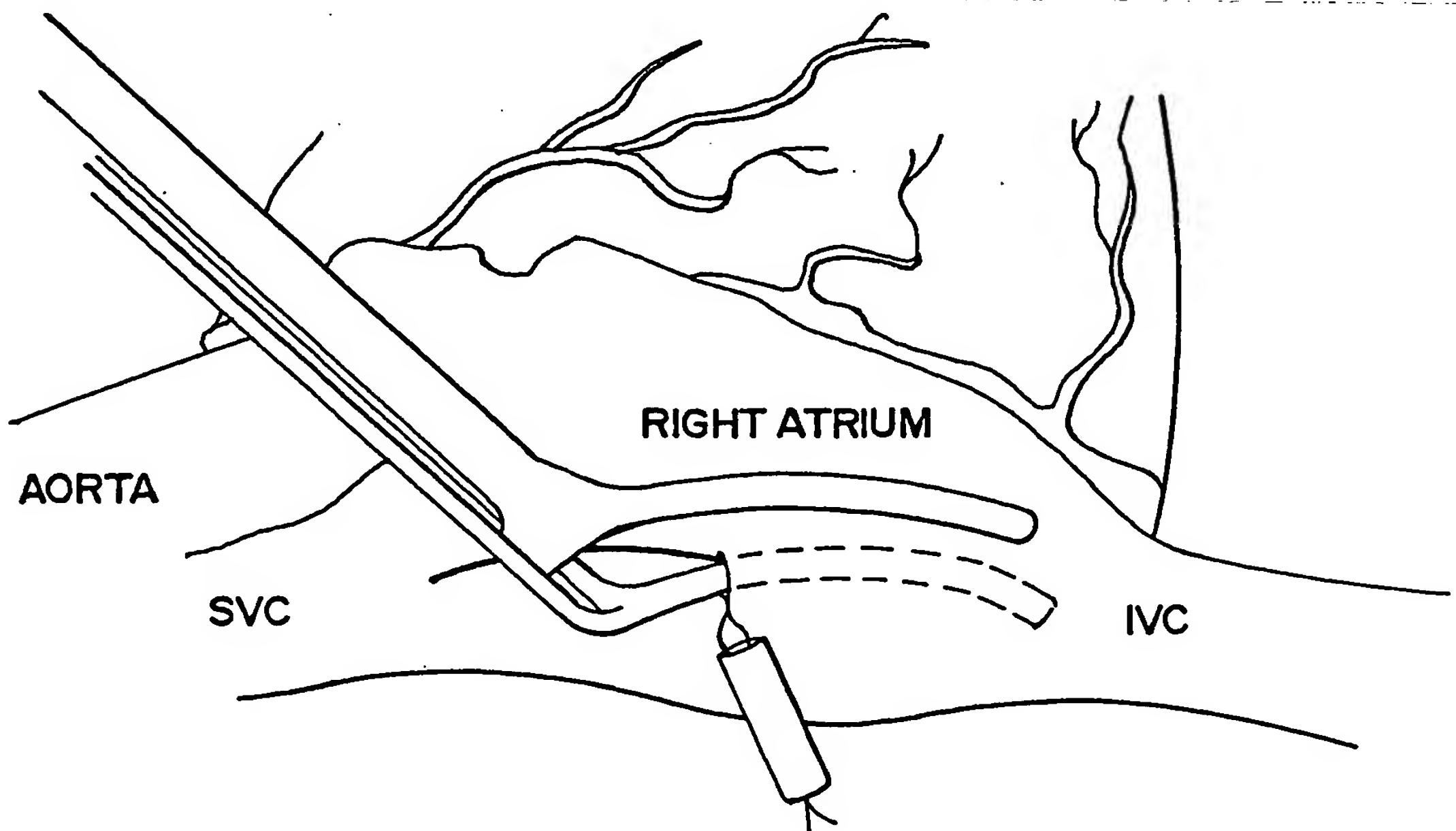


FIG.52G

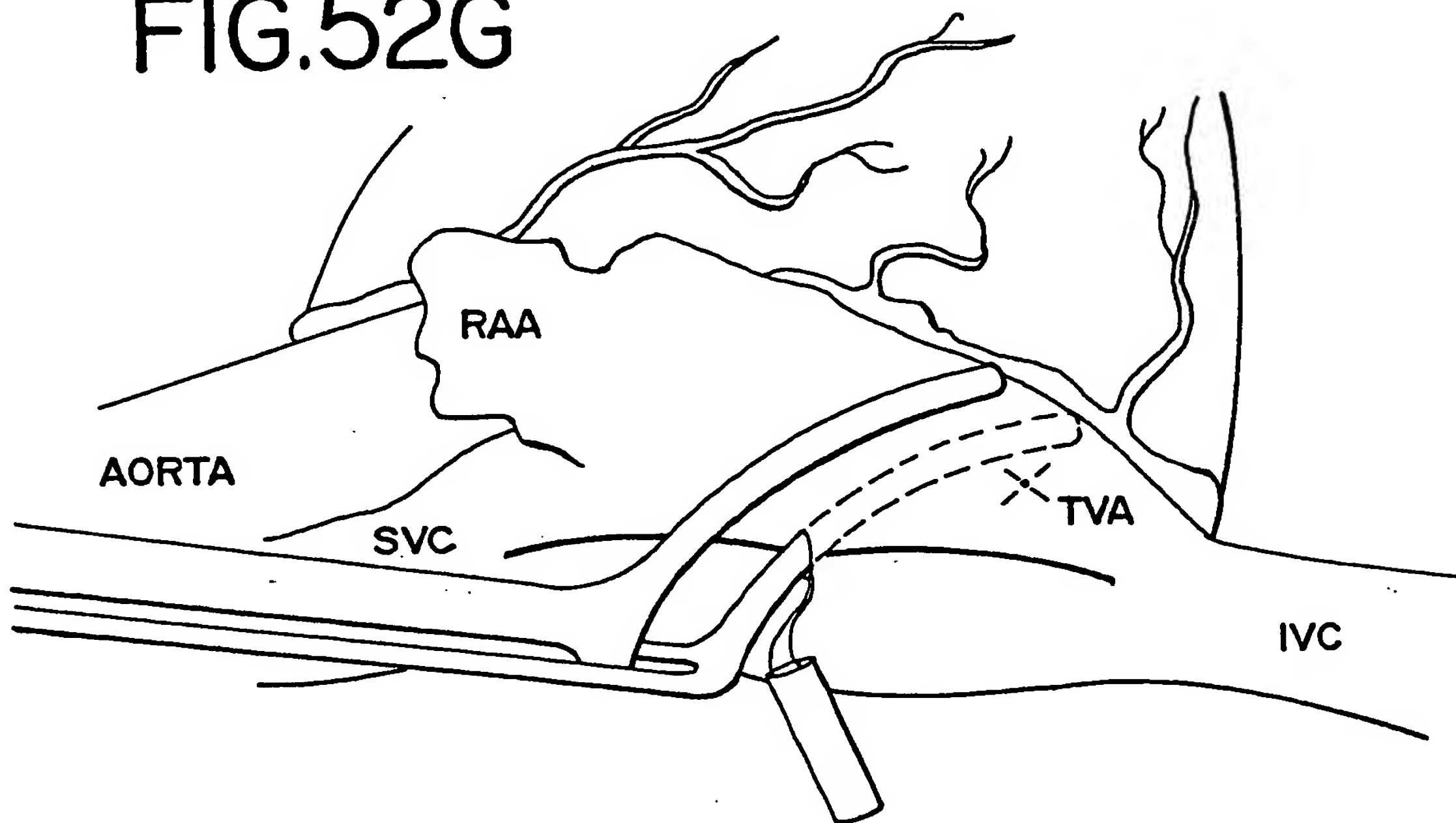


FIG.52H

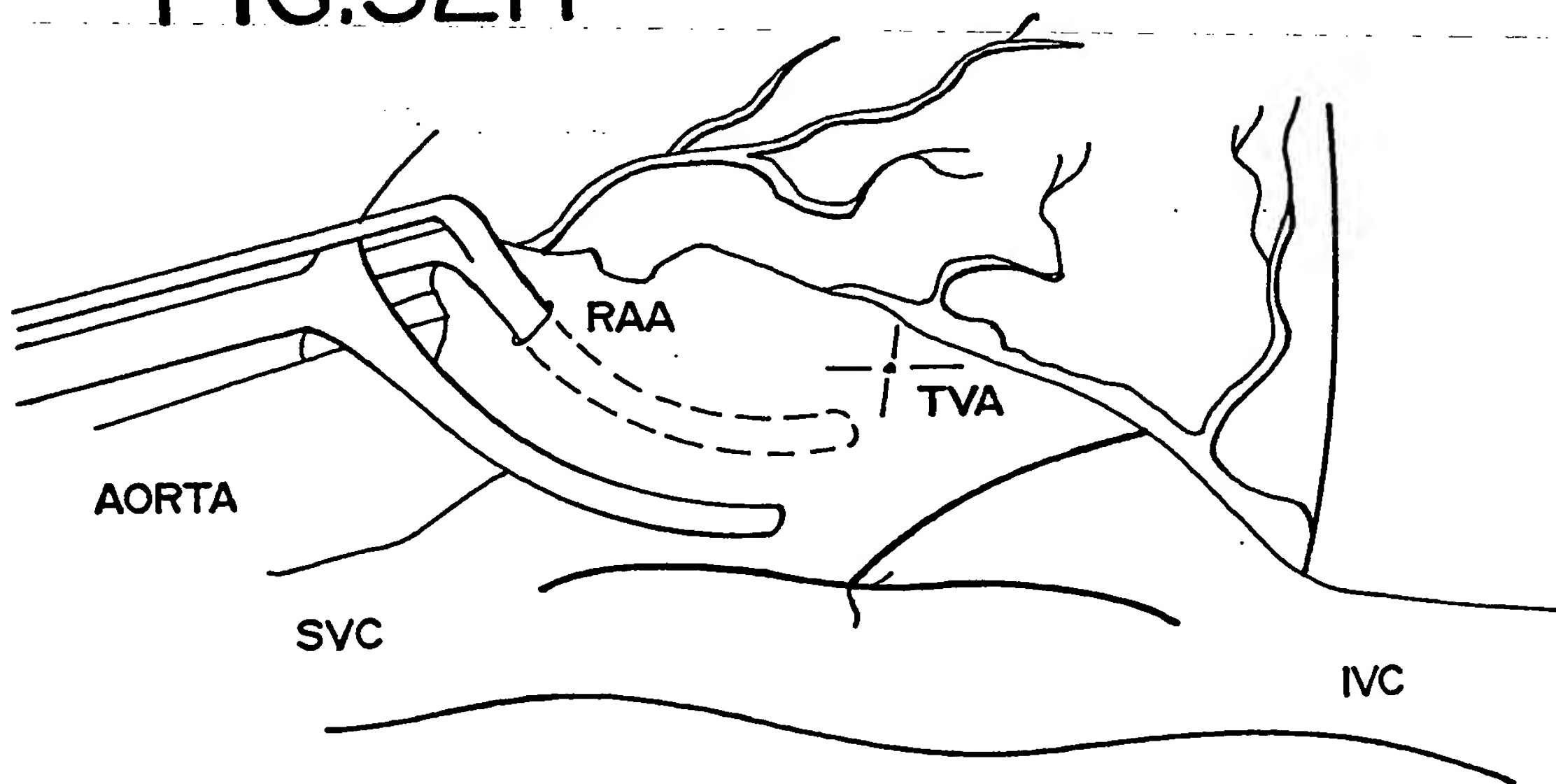


FIG.52I

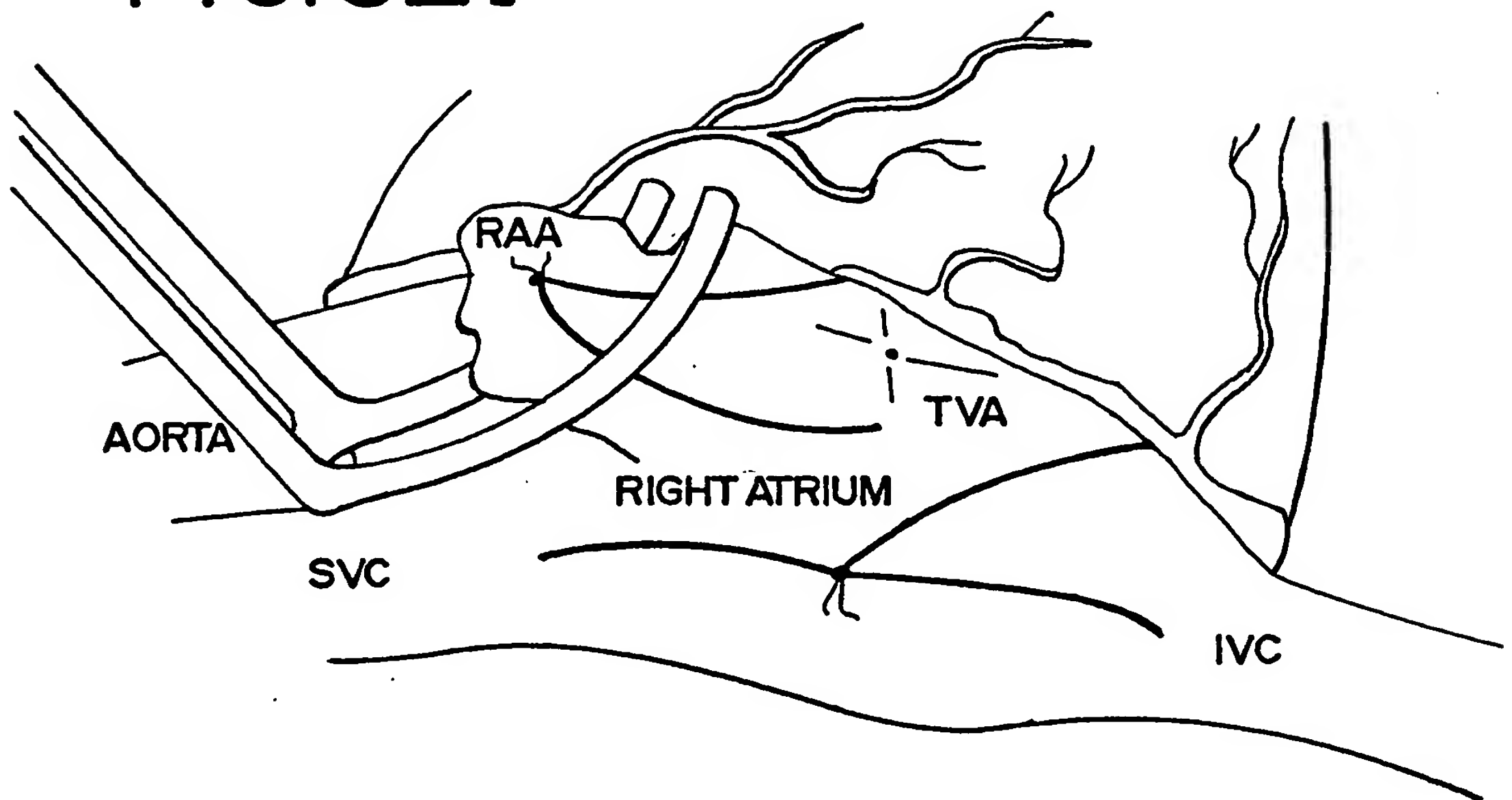


FIG.52J

PULMONARY ARTERY



FIG.52K

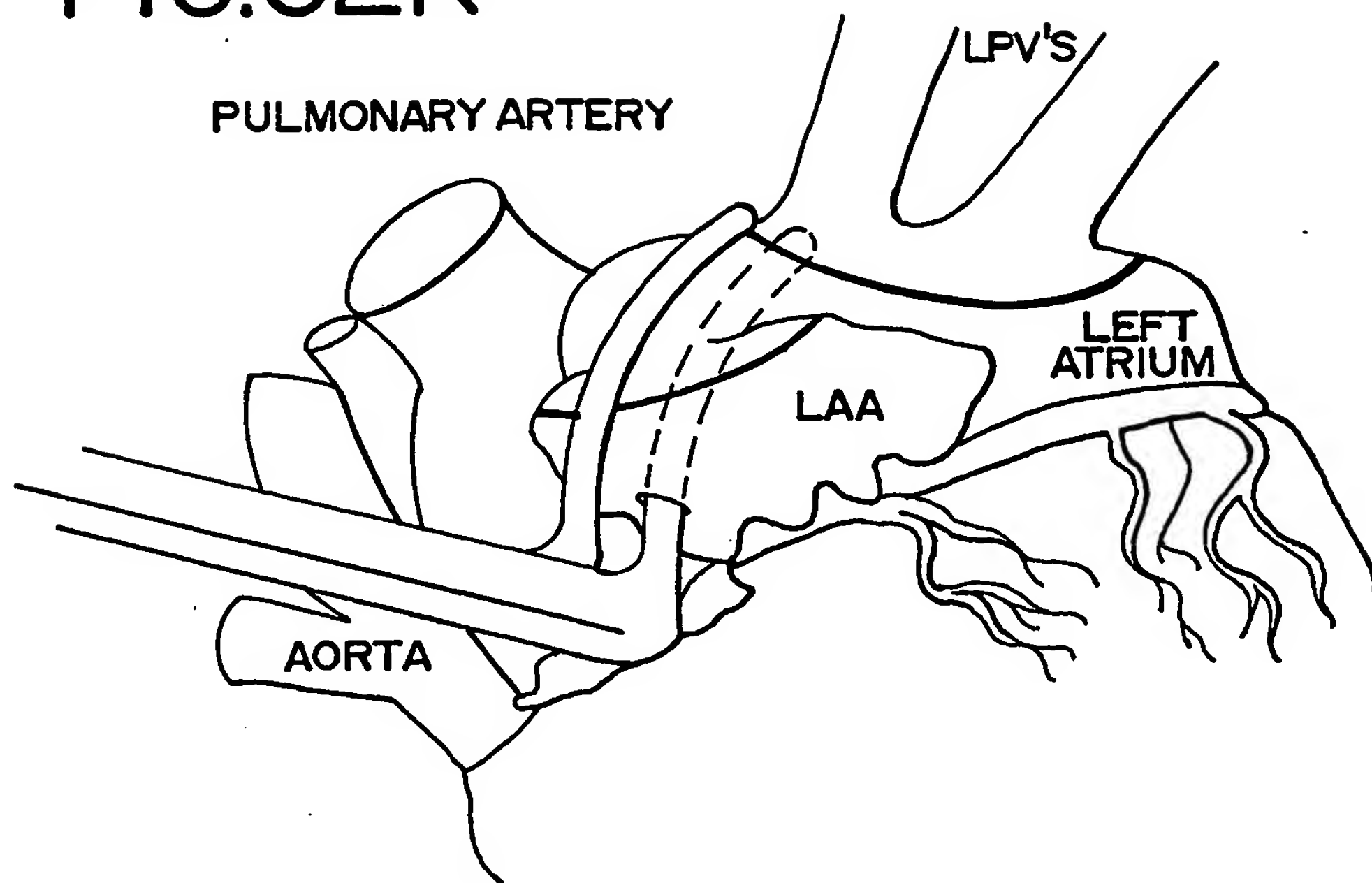


FIG. 52K is a schematic diagram of a heart 520 showing the location of a catheter 522 inserted into the left atrium 524. The catheter 522 is shown with a coiled portion 526 and a distal tip 528. The left atrium 524 is shown with the left atrial appendage 530. The catheter 522 is shown inserted into the left atrium 524 through the left atrial appendage 530. The catheter 522 is shown with a coiled portion 526 and a distal tip 528. The left atrium 524 is shown with the left atrial appendage 530.

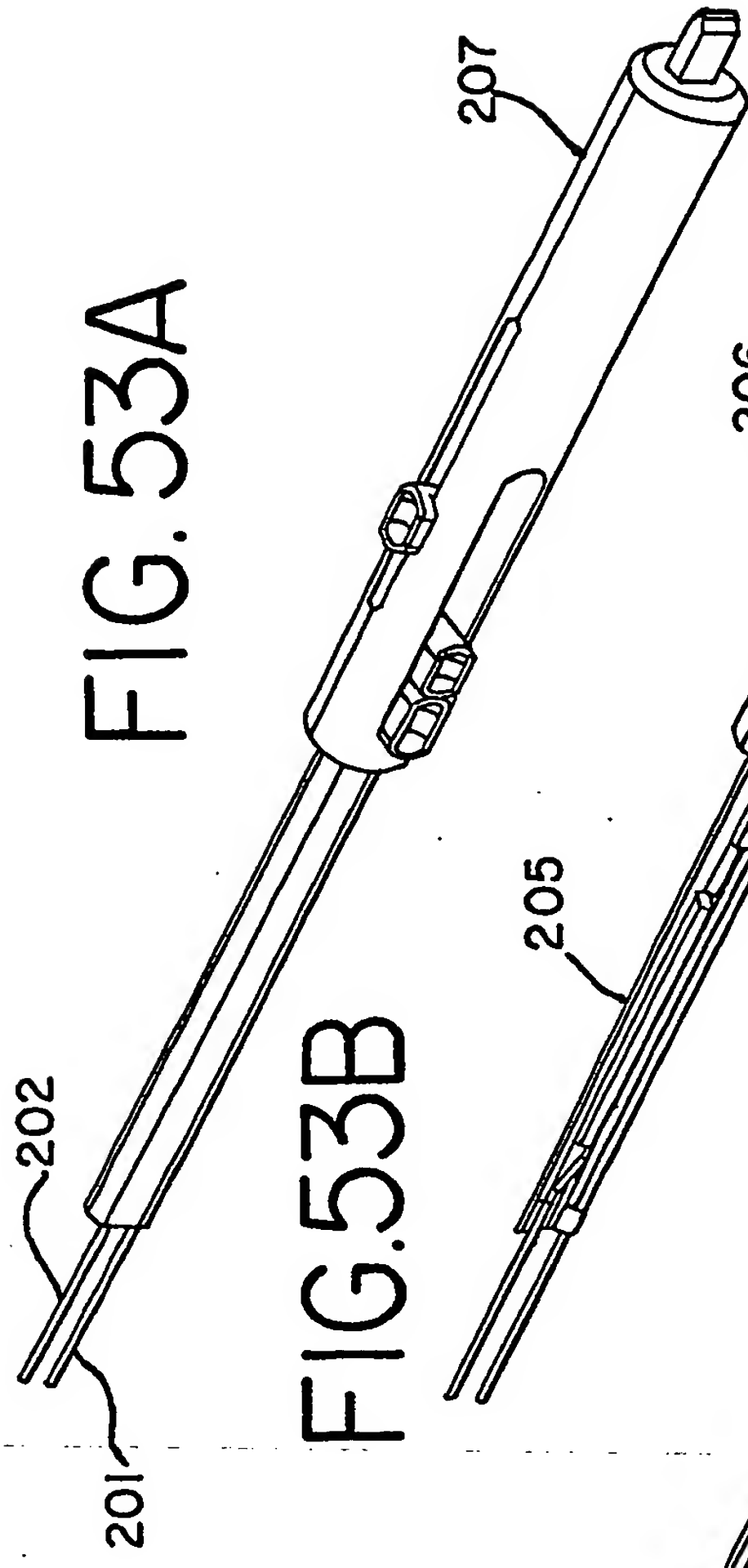


FIG. 53A

FIG. 53B

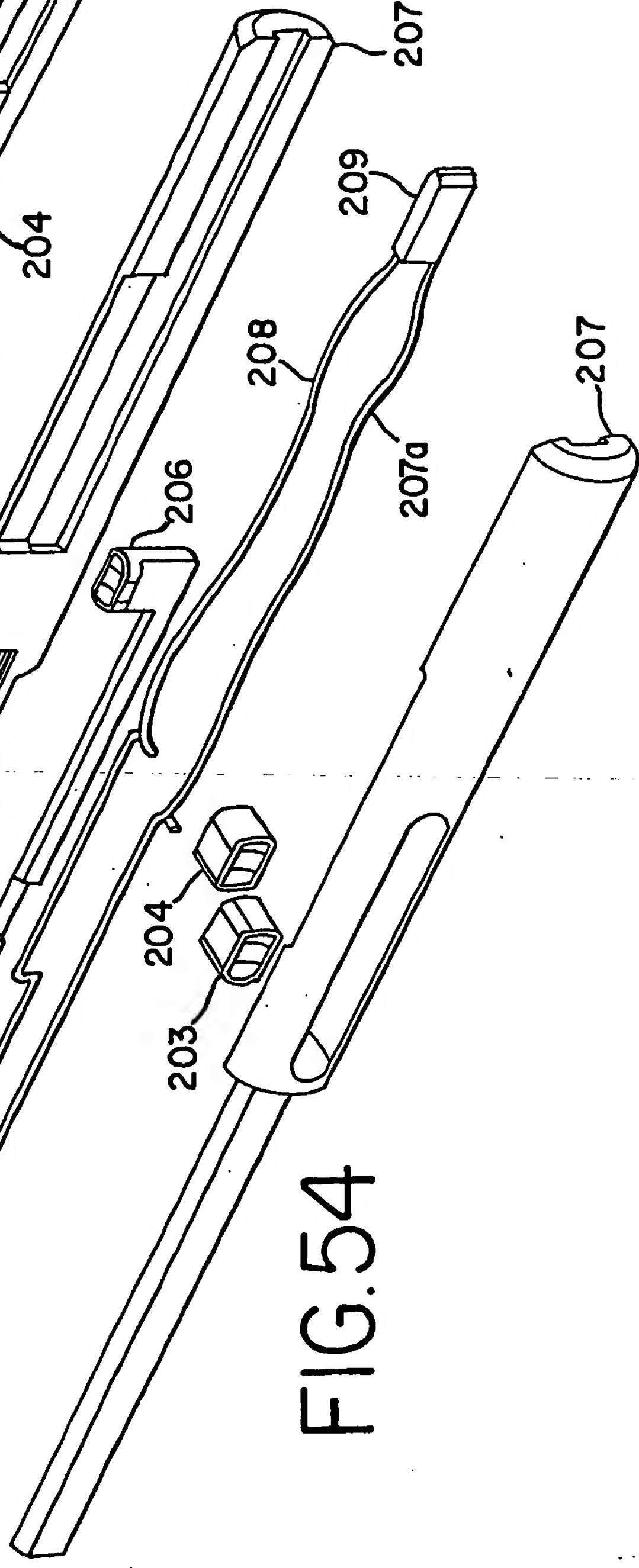
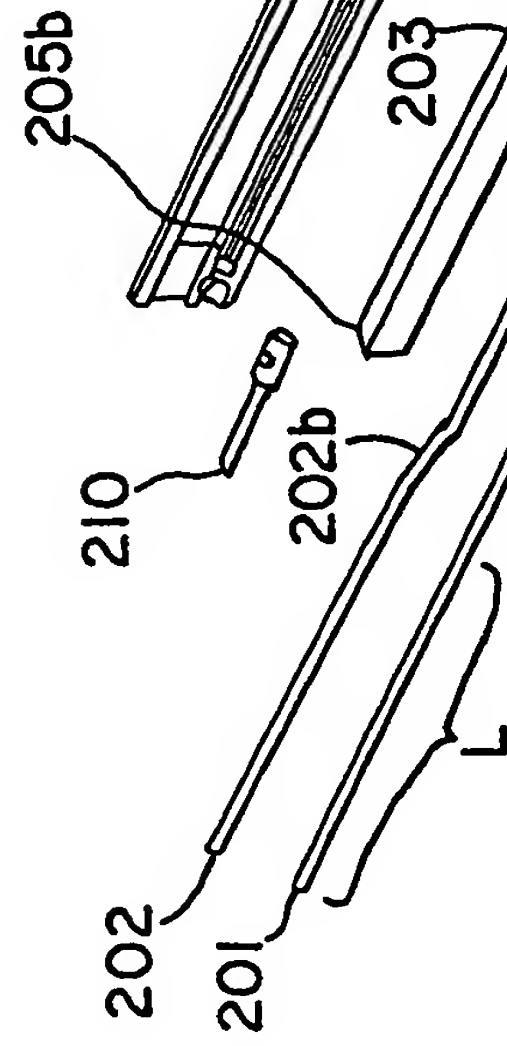
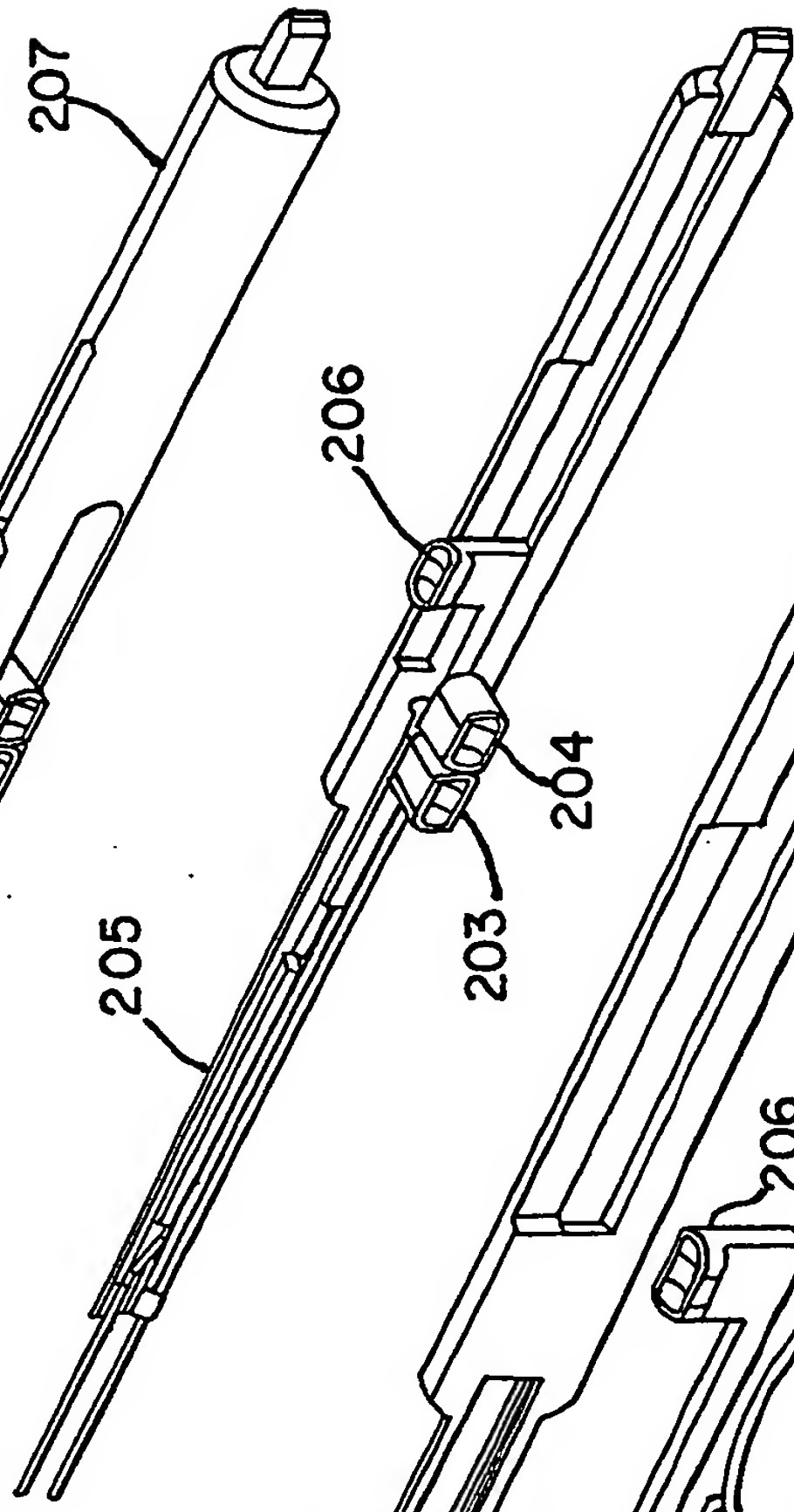
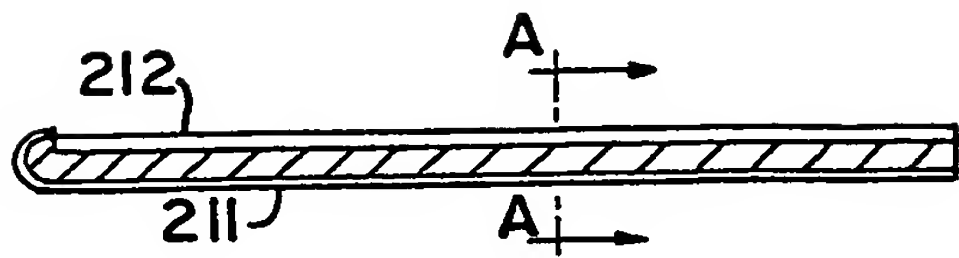
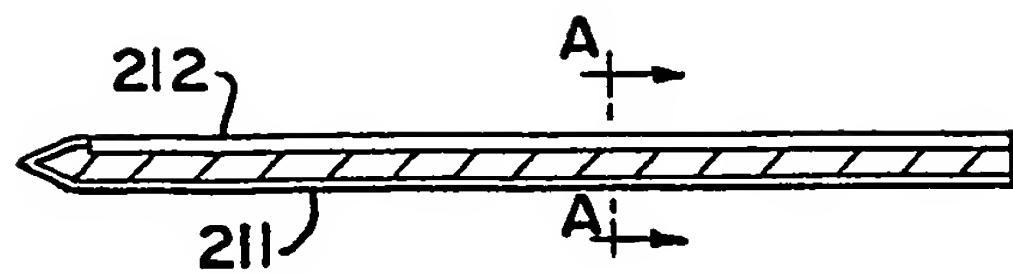


FIG. 54

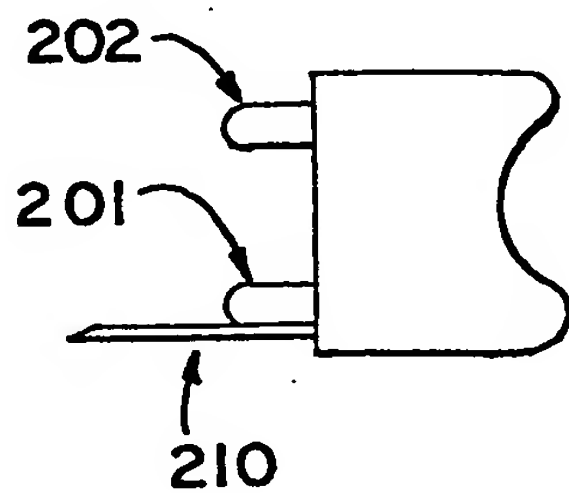
# FIG. 55



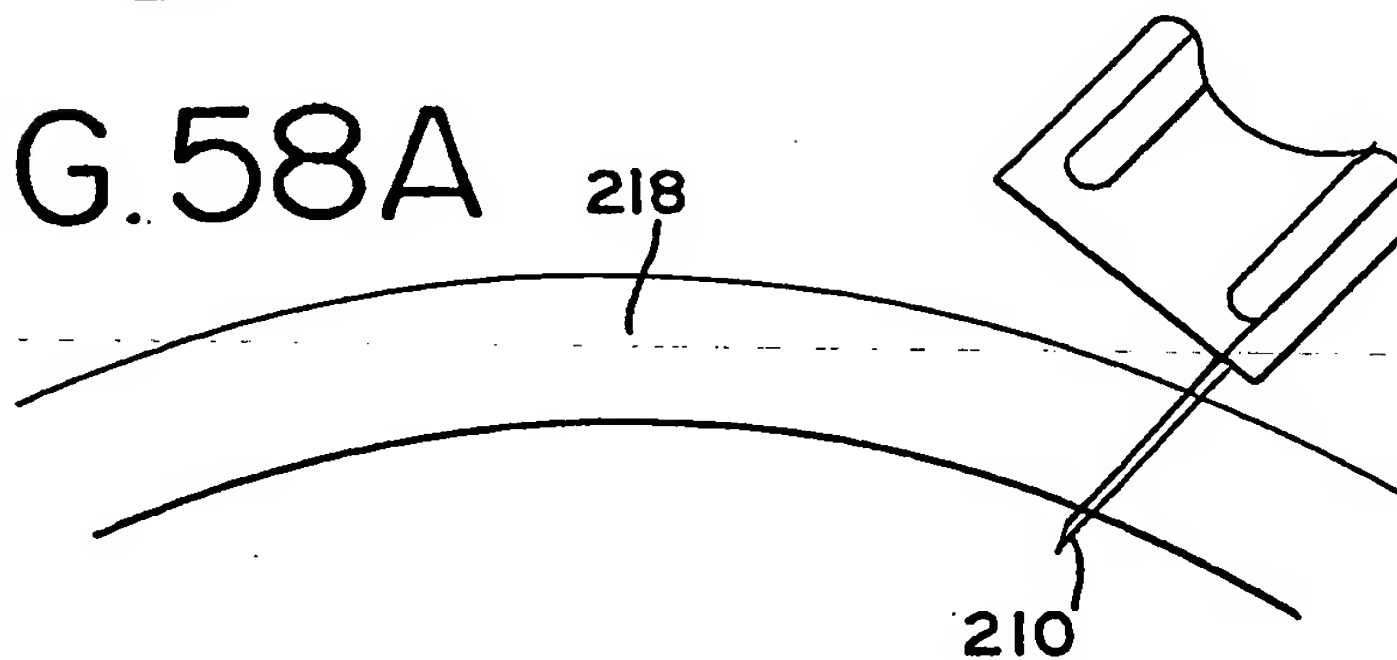
# FIG. 56



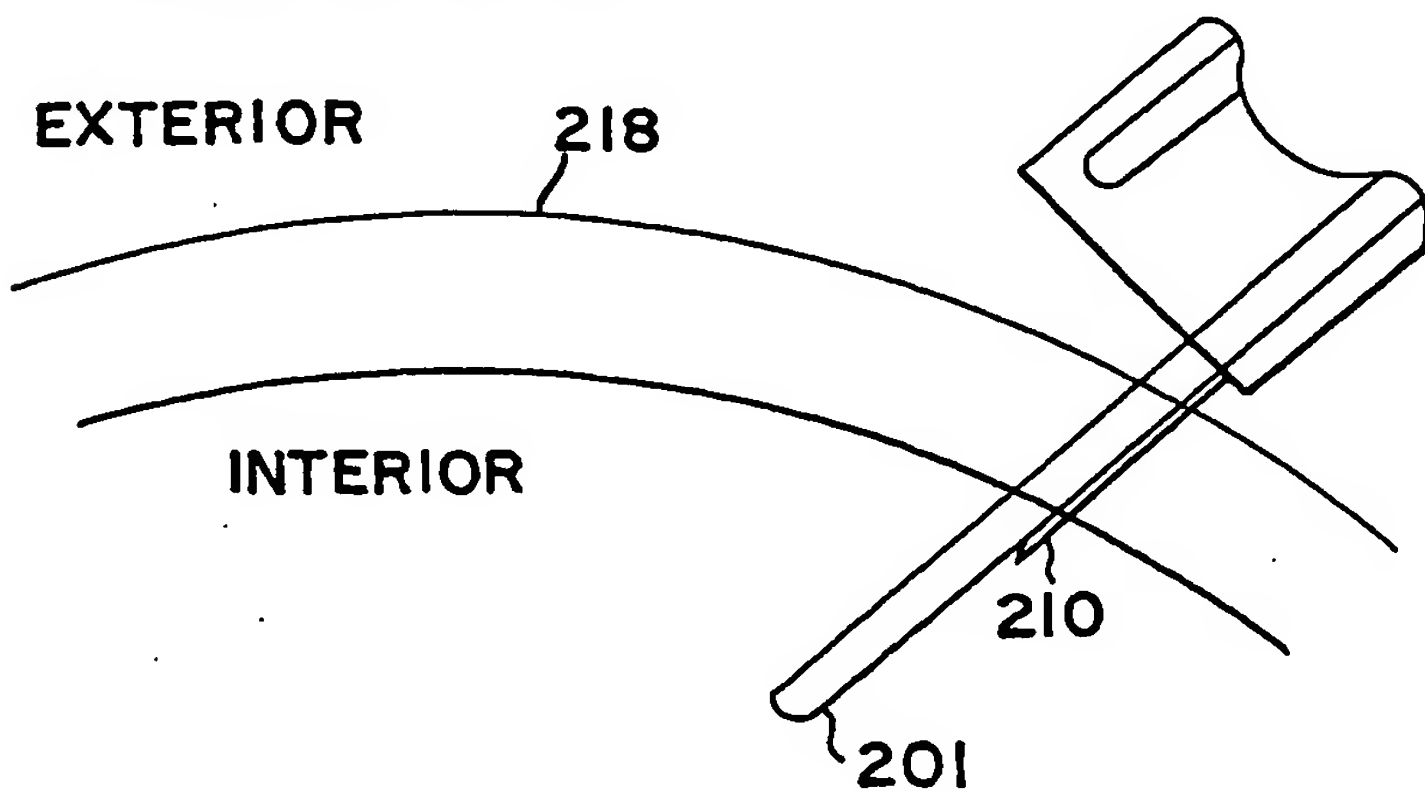
# FIG. 57



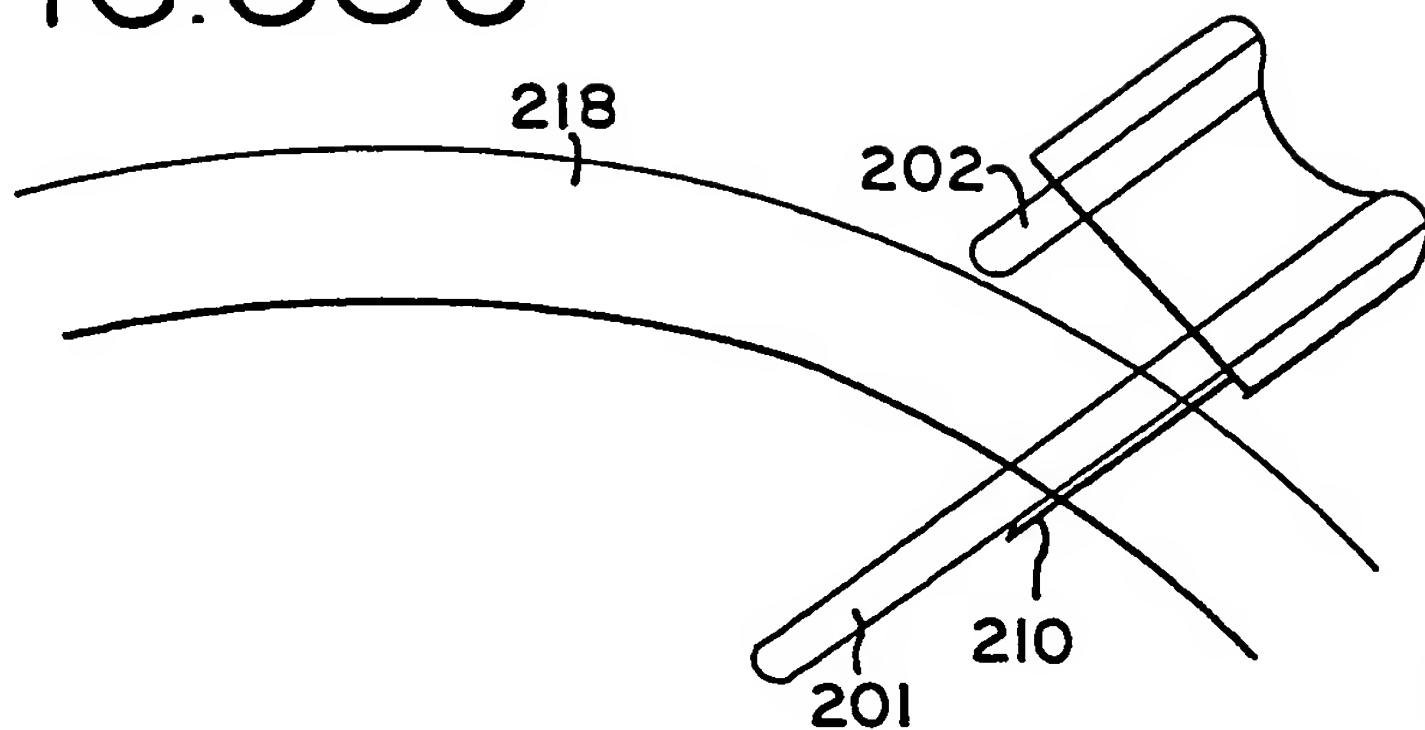
# FIG. 58A



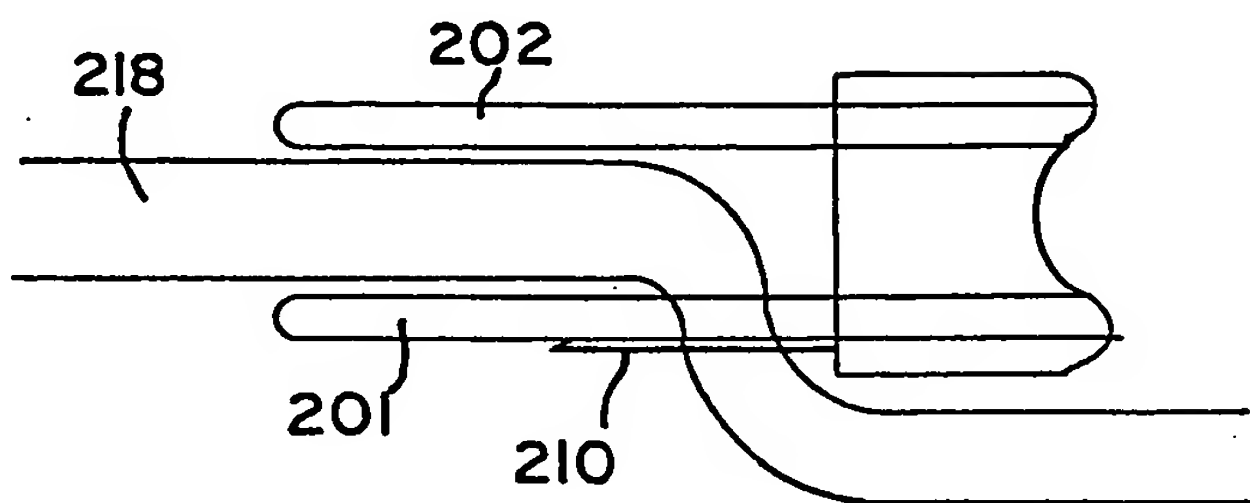
# FIG. 58B



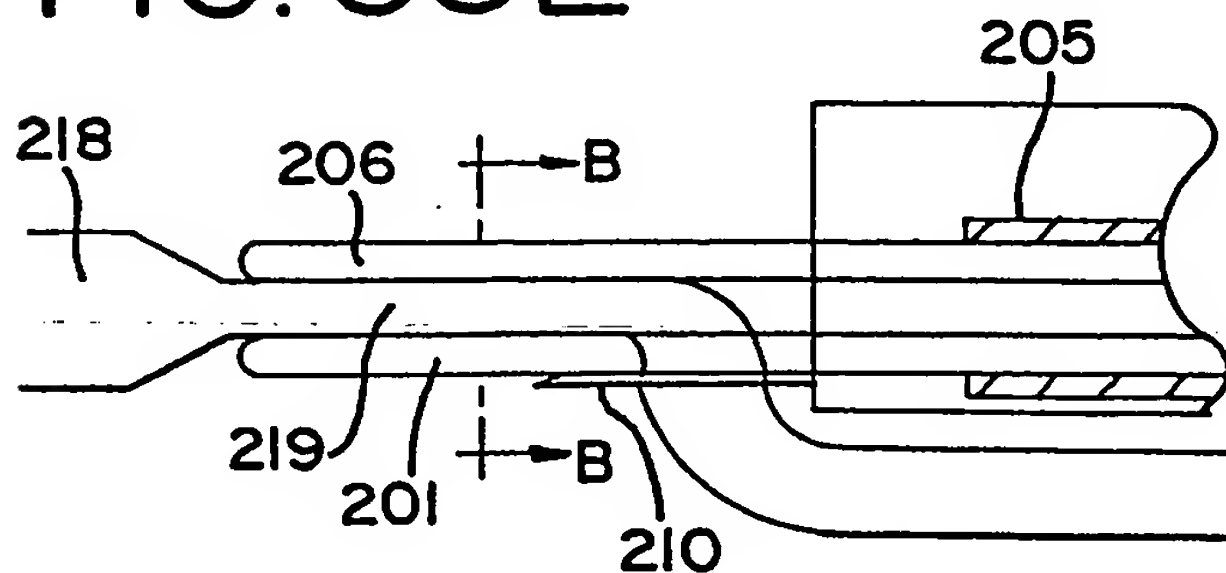
# FIG. 58C



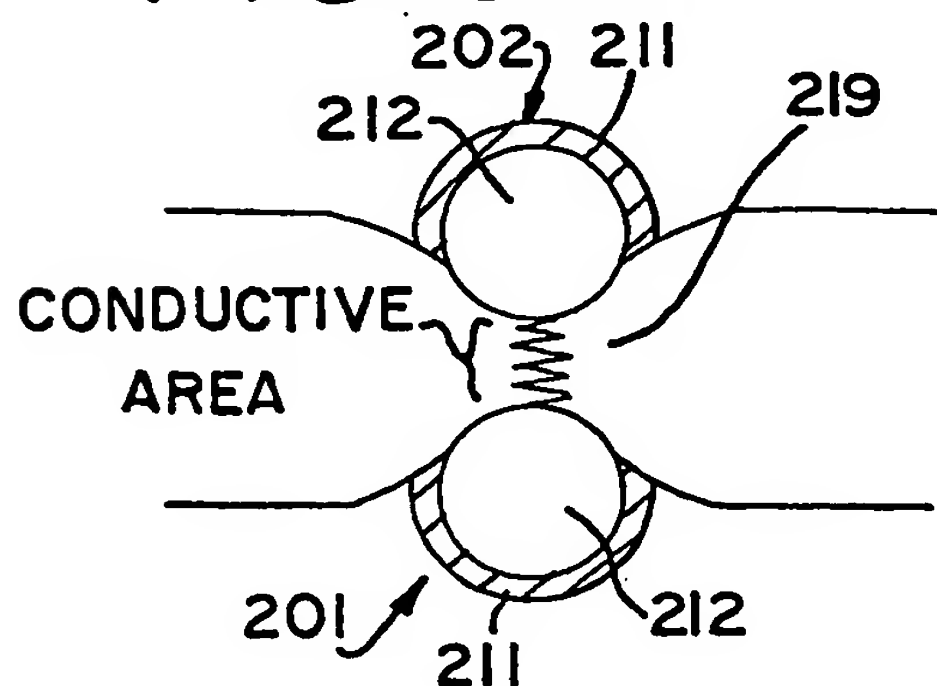
# FIG. 58D



# FIG. 58E



# FIG. 58F



# FIG. 58G

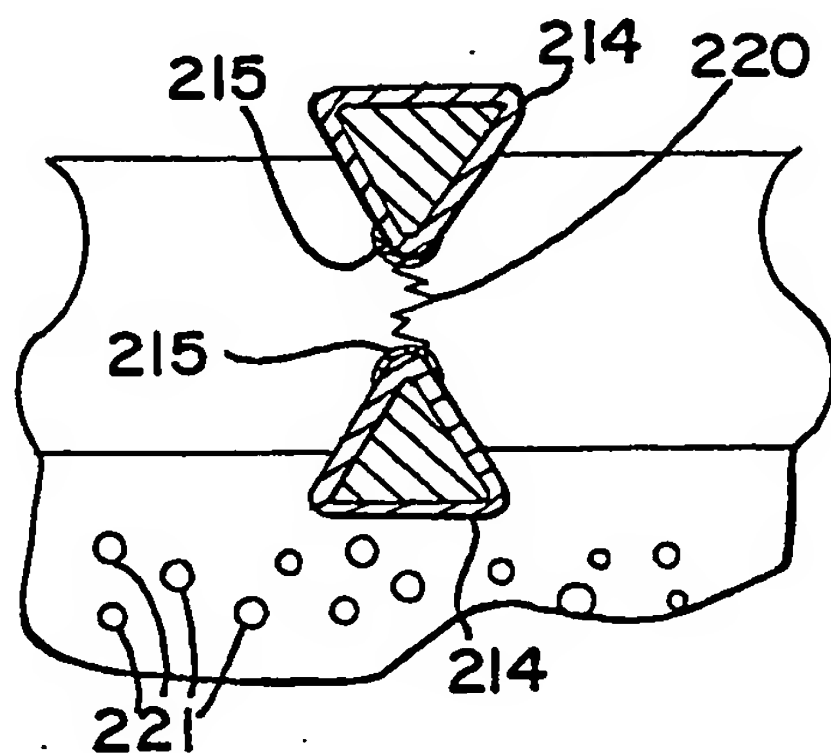


FIG. 59

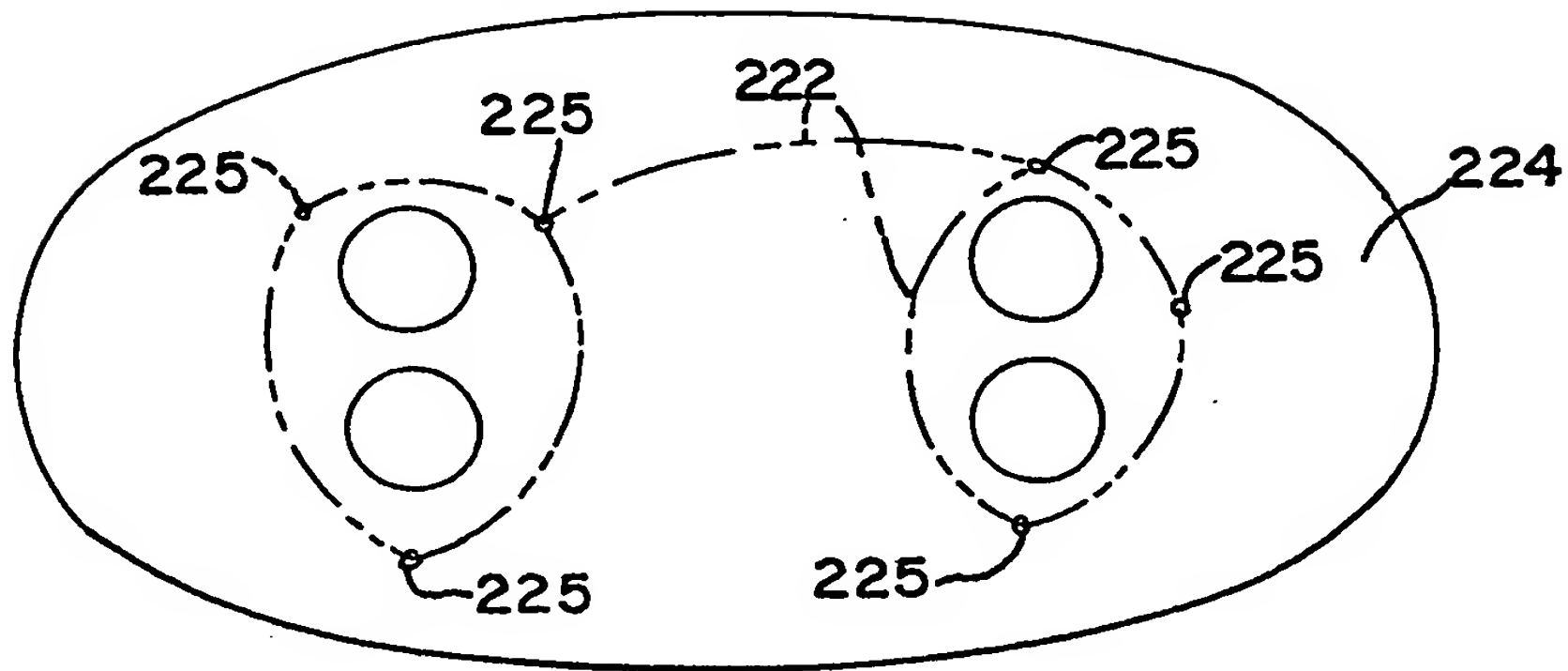


FIG. 60A

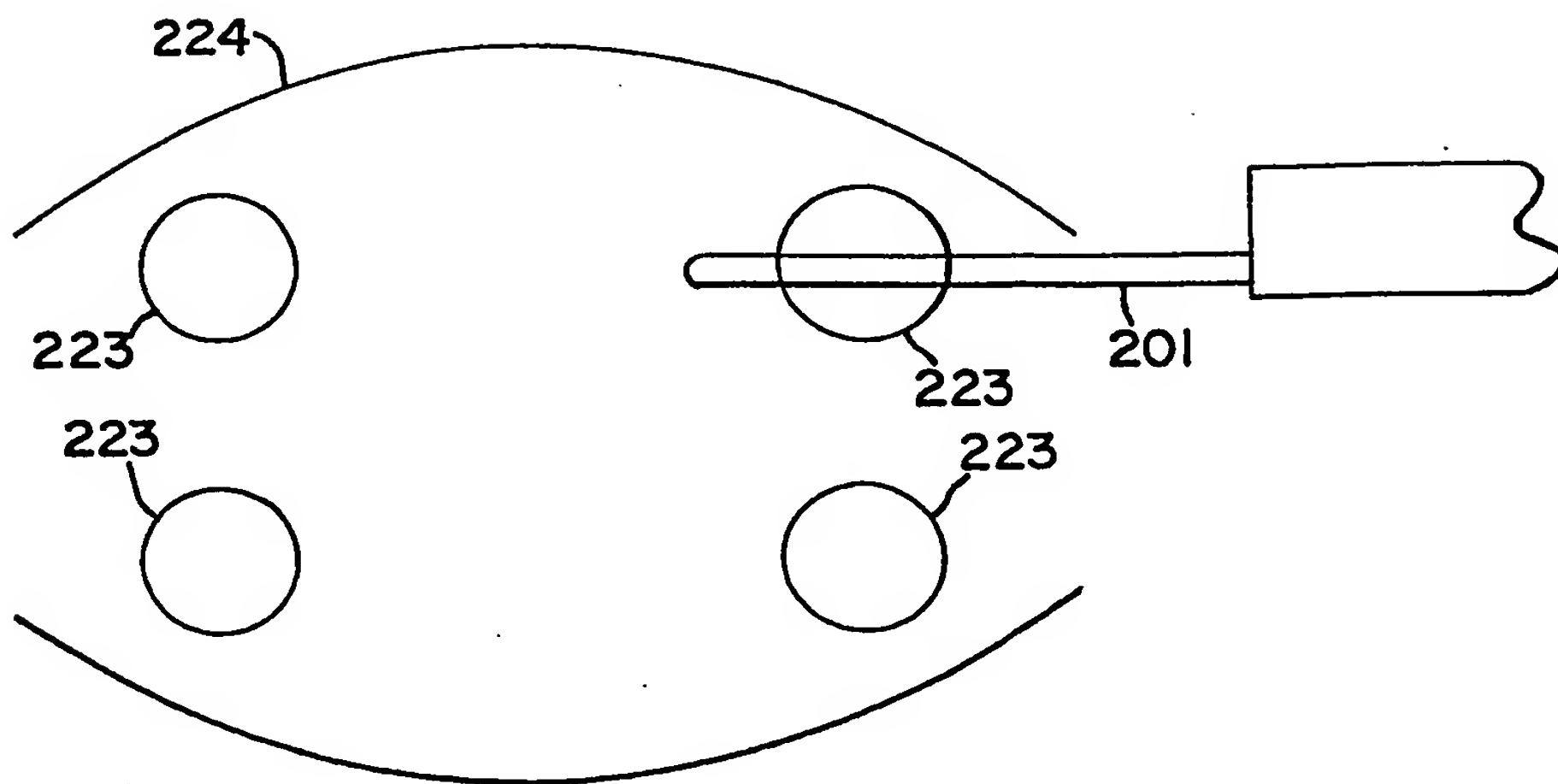




FIG. 60B

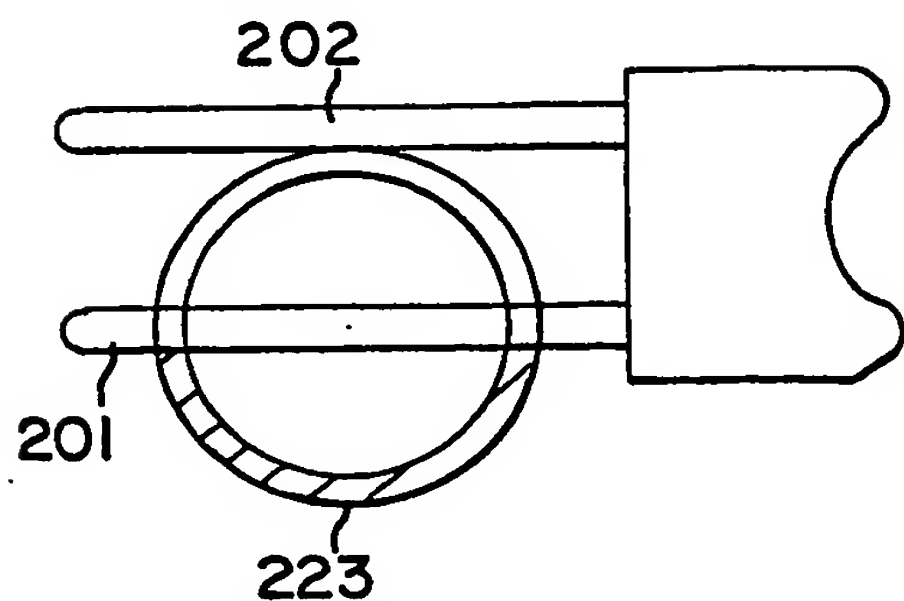


FIG. 60C

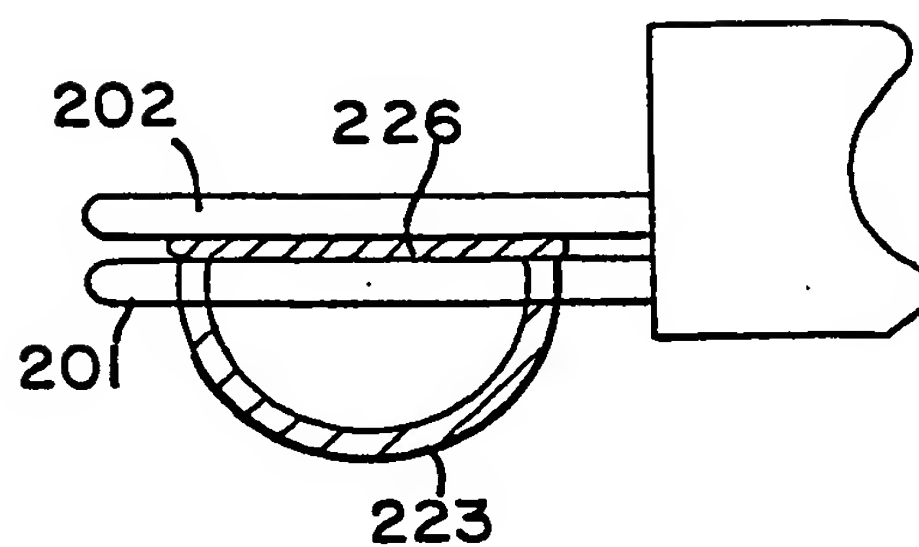


FIG. 60D

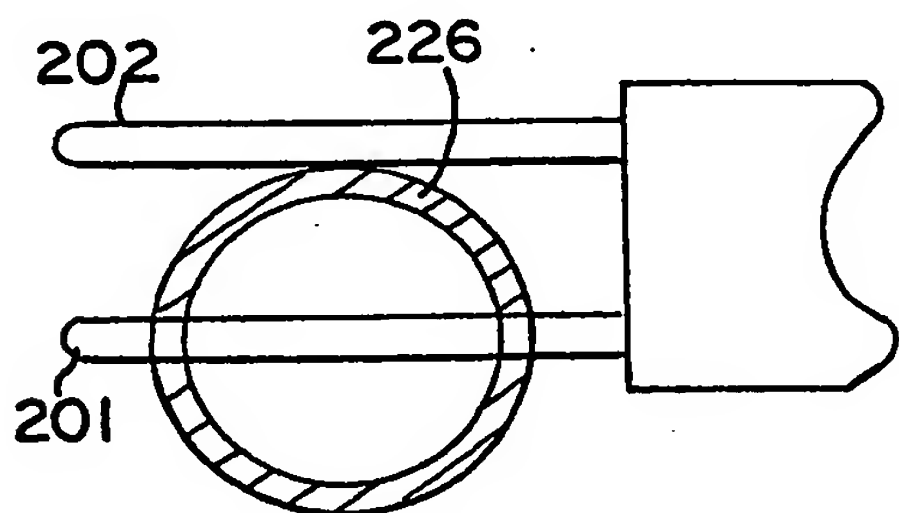


FIG. 60E

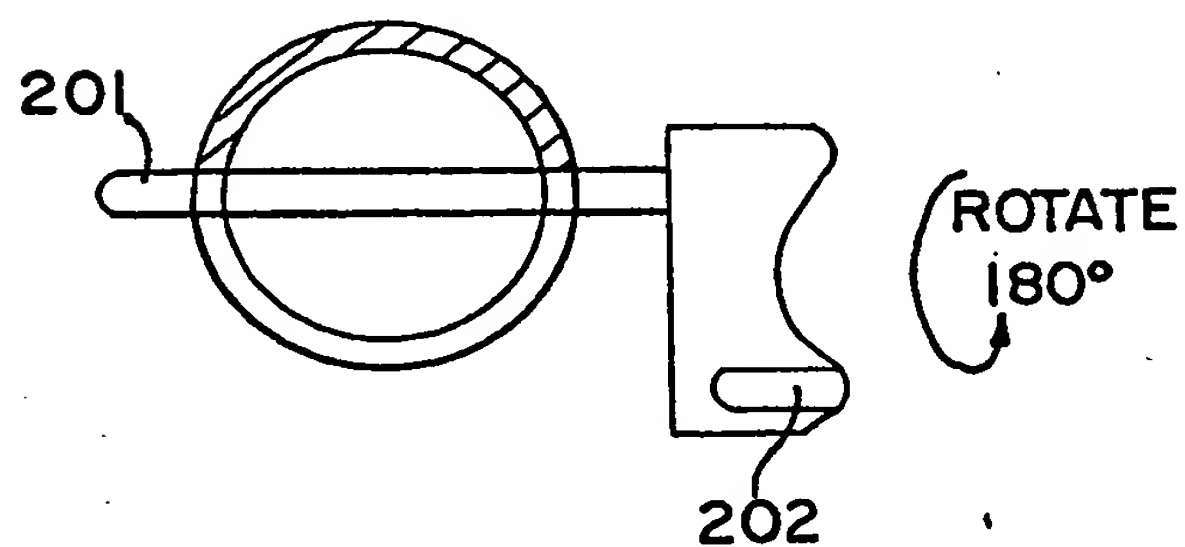


FIG. 60F

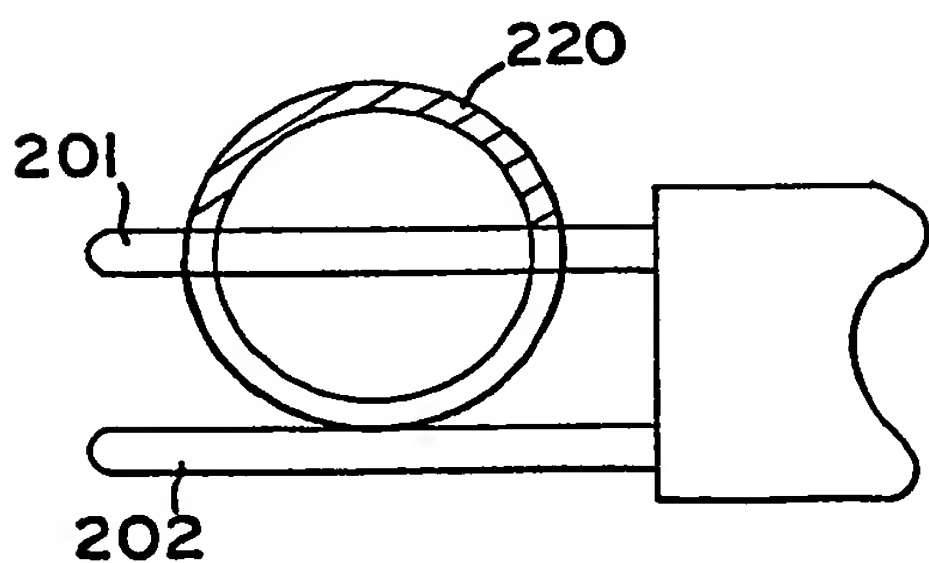


FIG. 60G

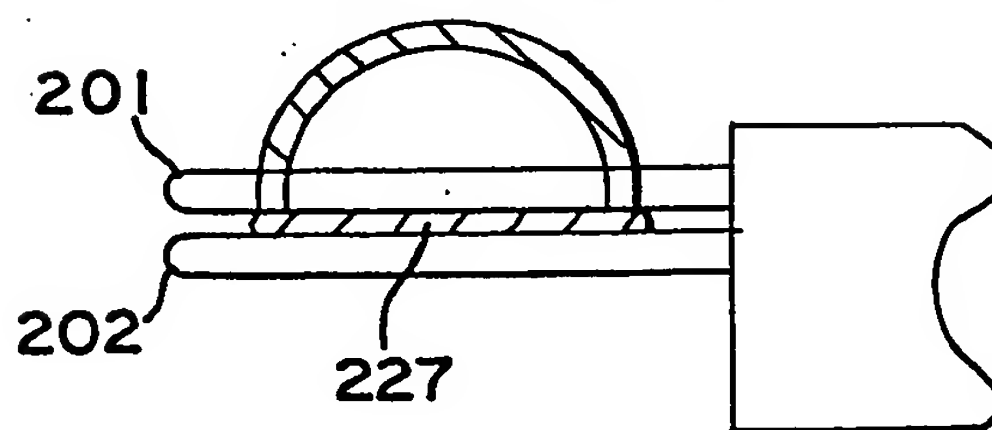


FIG. 60H

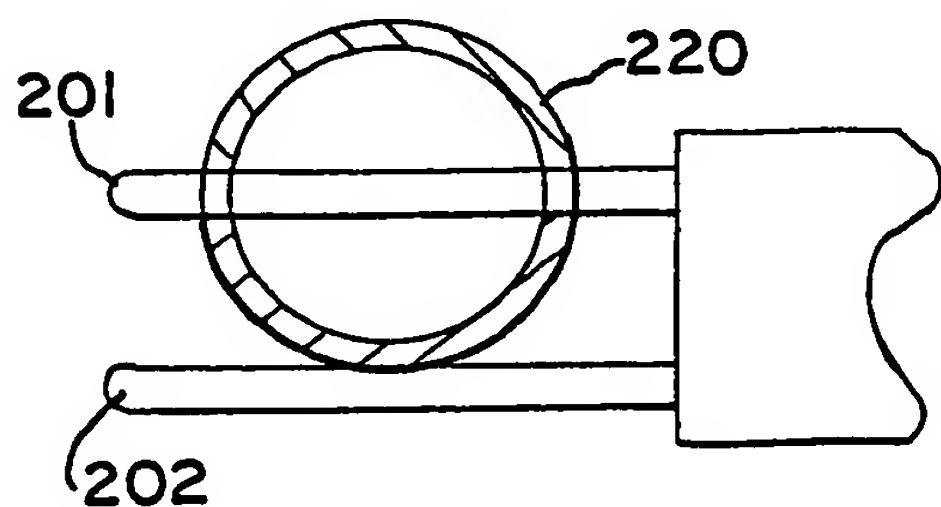
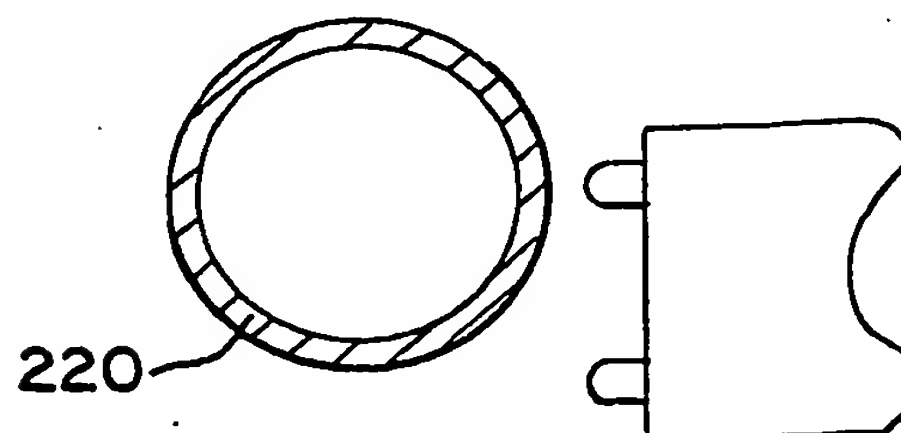
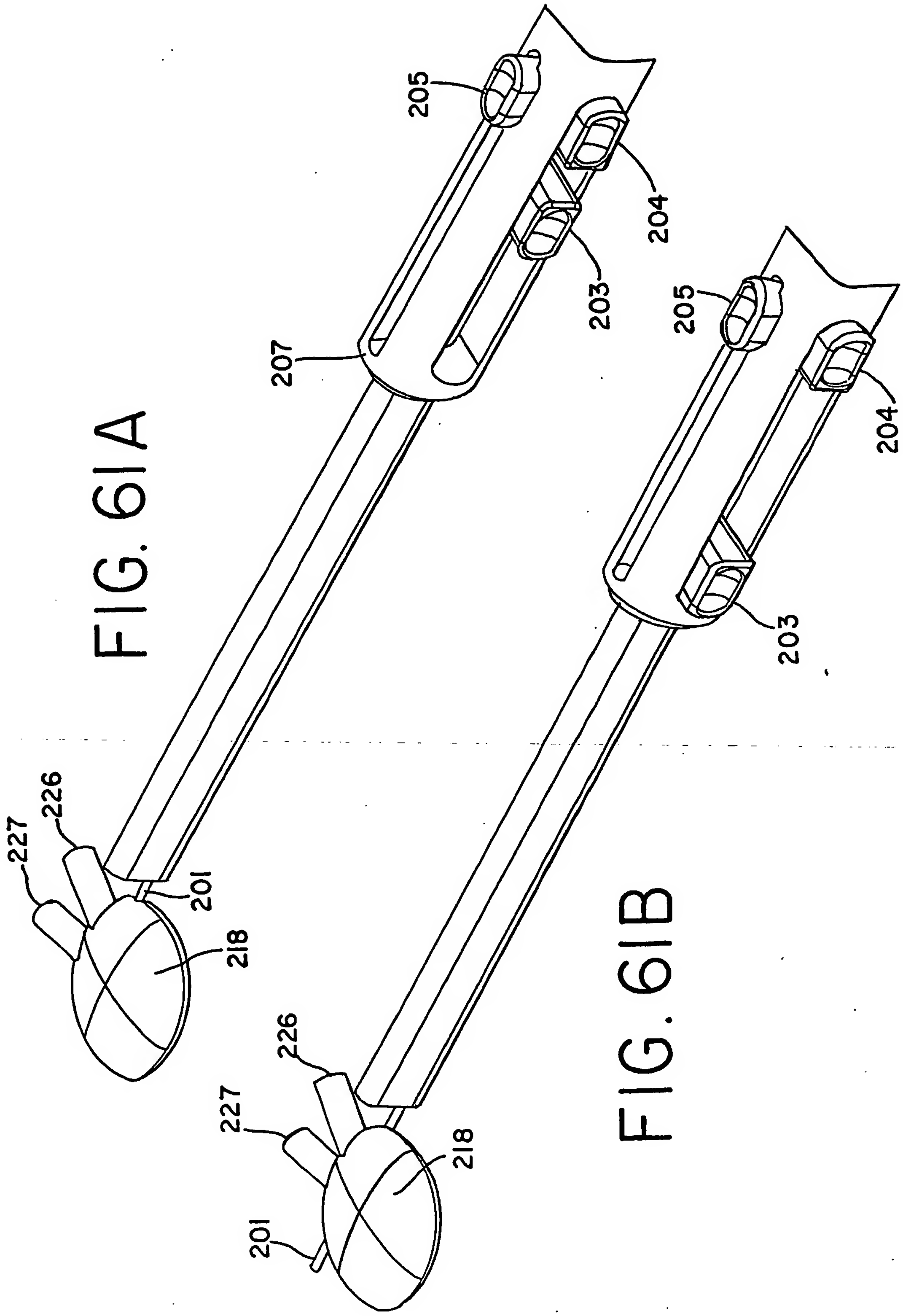


FIG. 60I





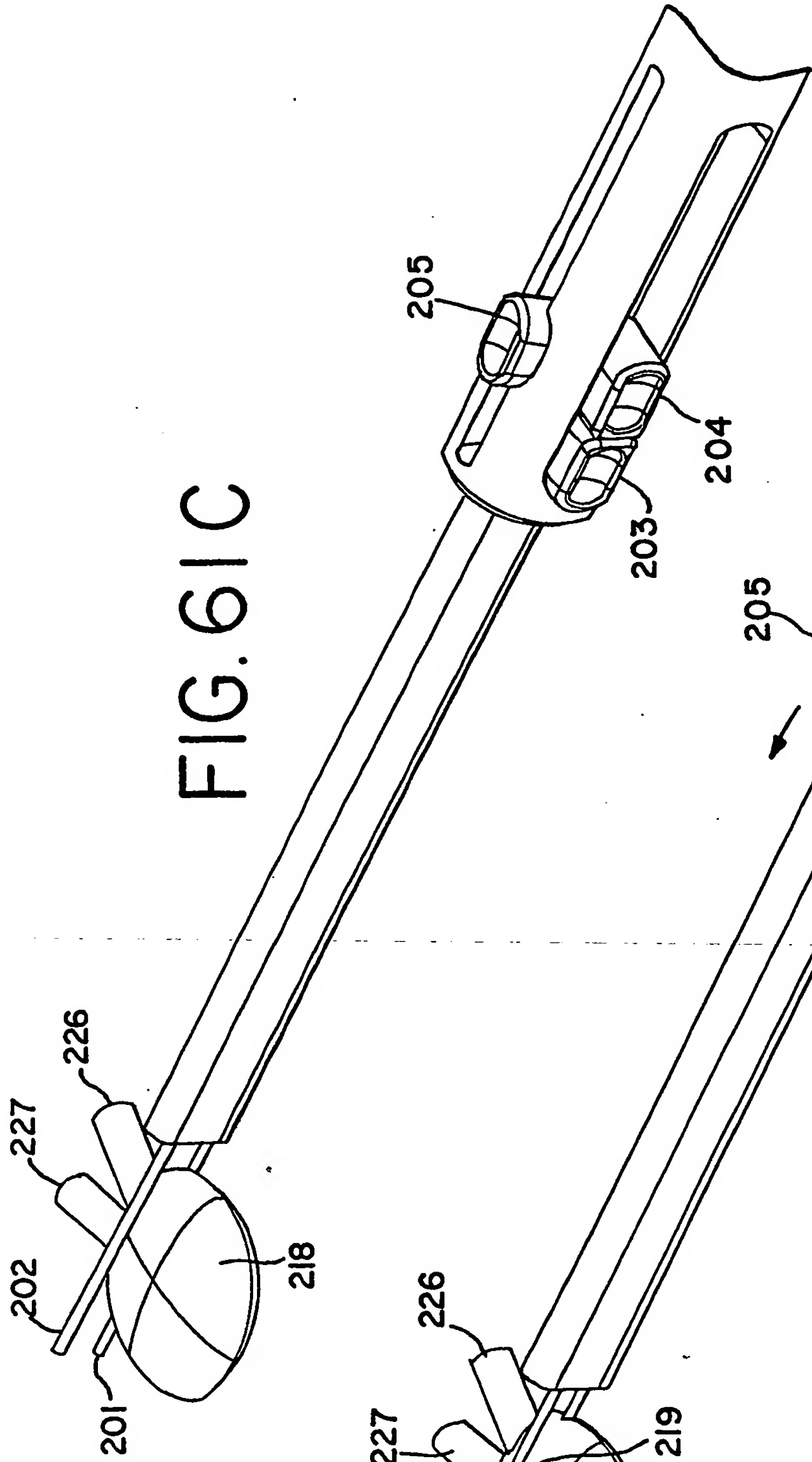


FIG. 61C

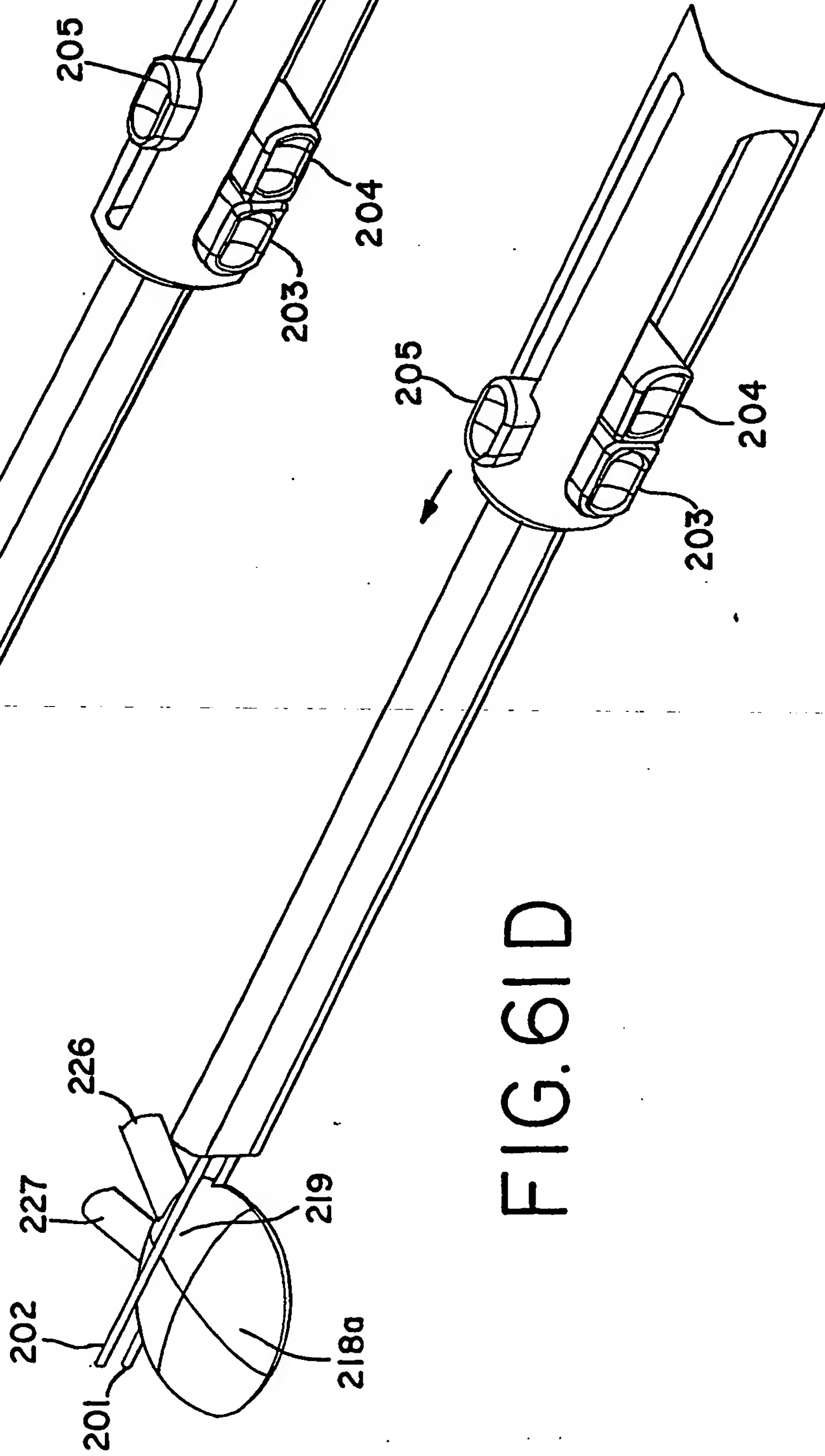


FIG. 61D

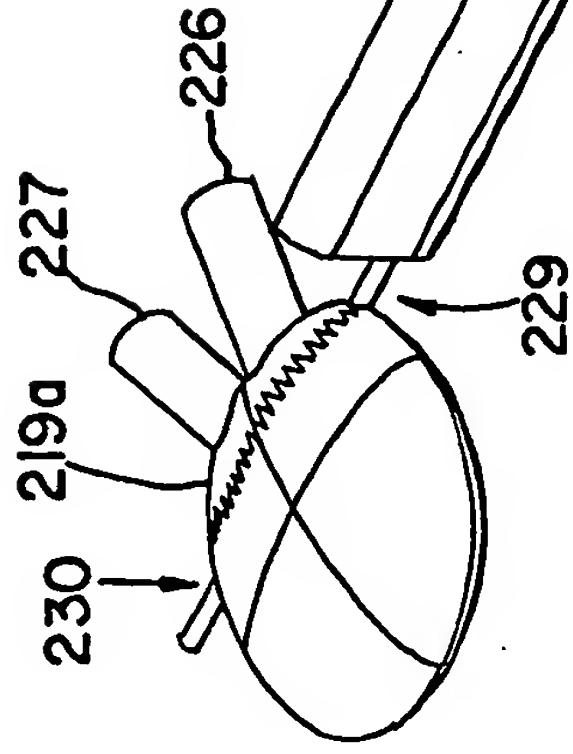


FIG. 61E

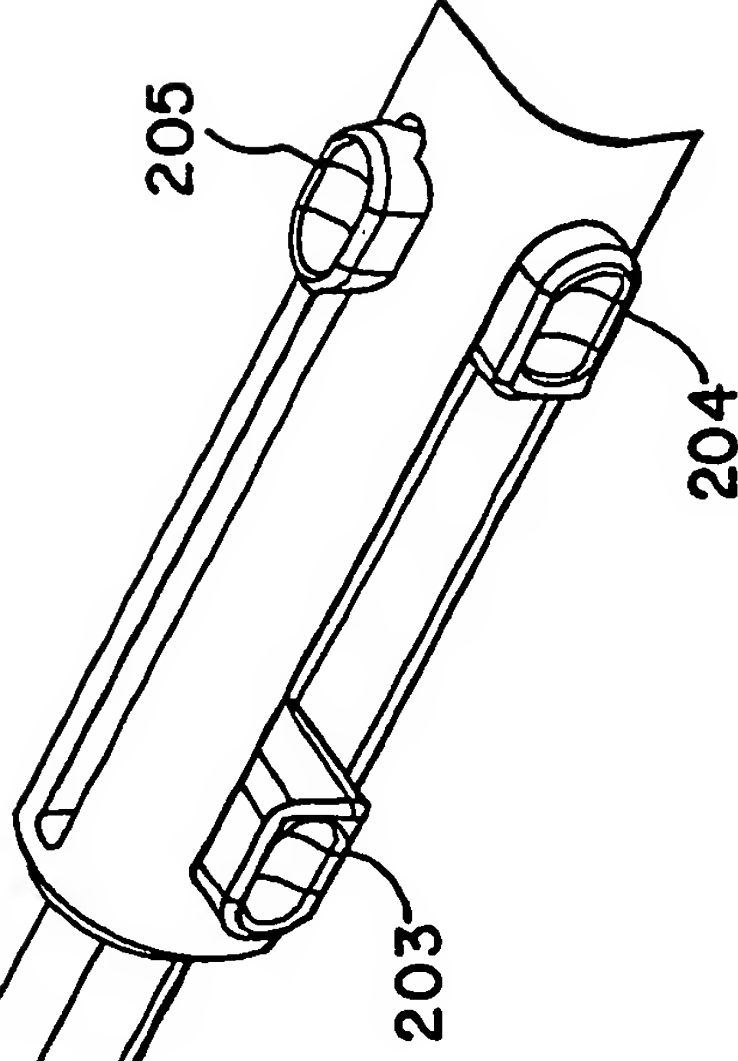


FIG. 61F

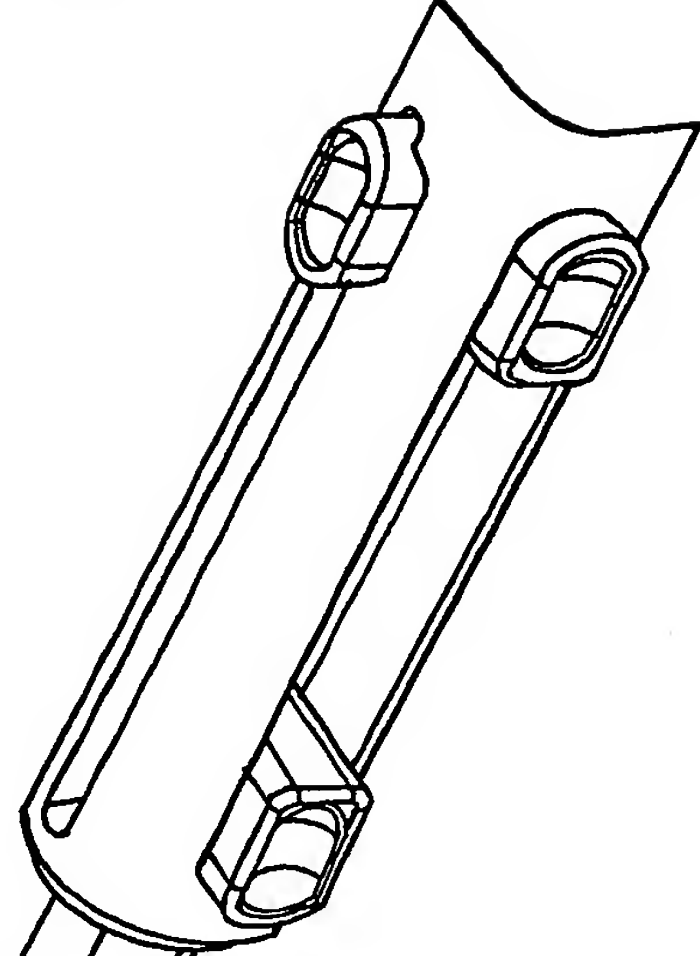
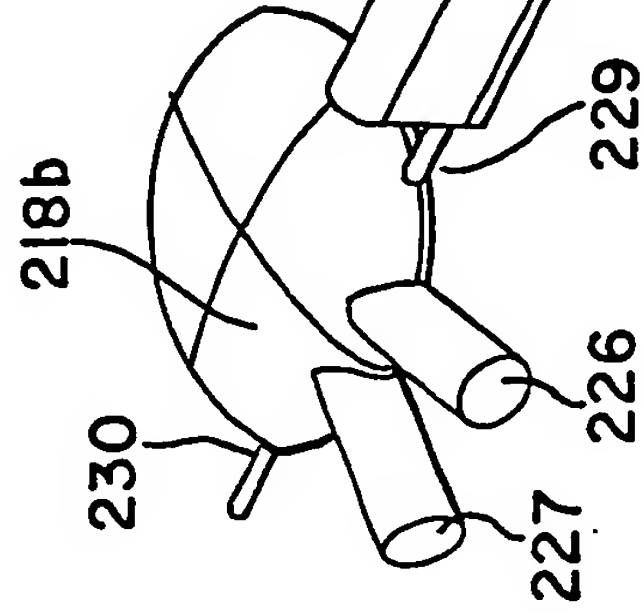




FIG. 6I is a perspective view of the device in a retracted position, showing the handle 201, the shaft 202, and the distal end 203. The handle 201 is shown in a retracted position, and the shaft 202 is shown in a retracted position. The distal end 203 is shown in a retracted position.

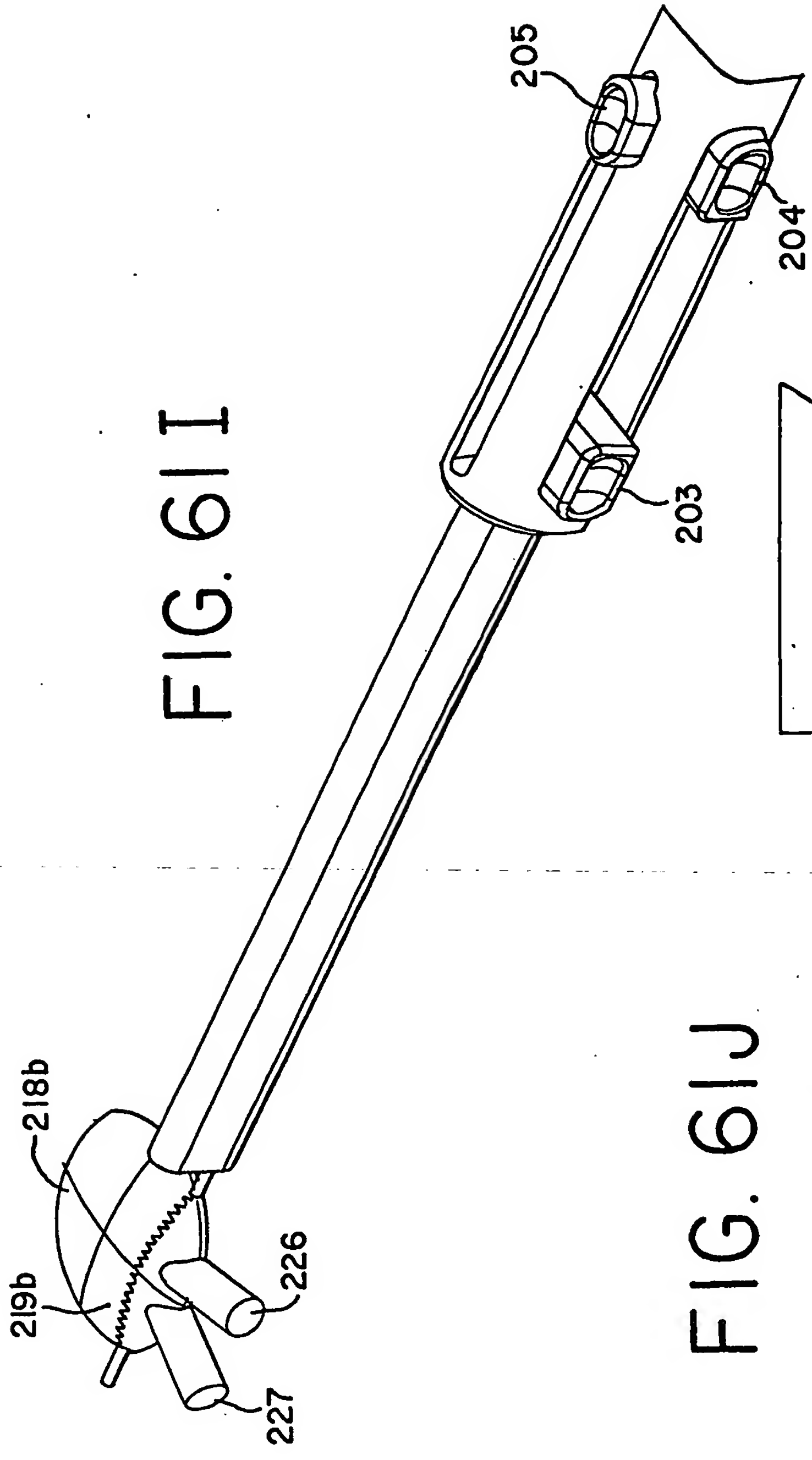


FIG. 6I

FIG. 6I

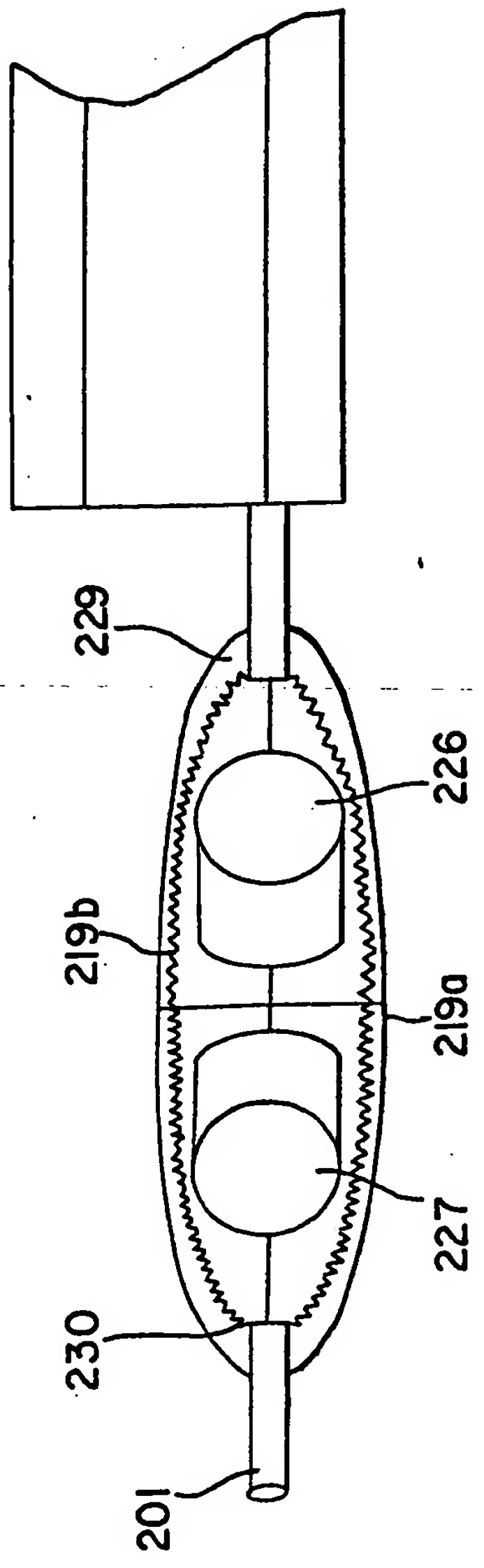


FIG. 6J

FIG.62A

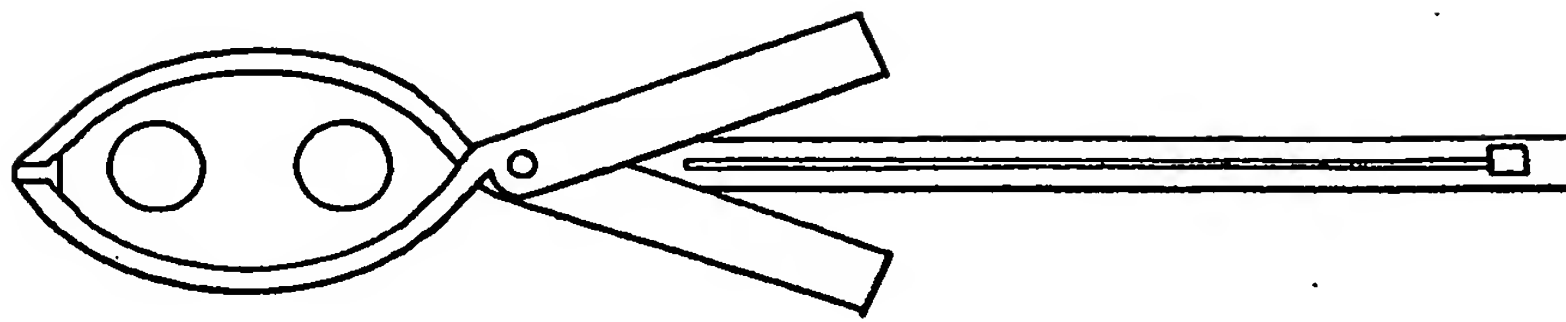


FIG.62B

RECEIVER

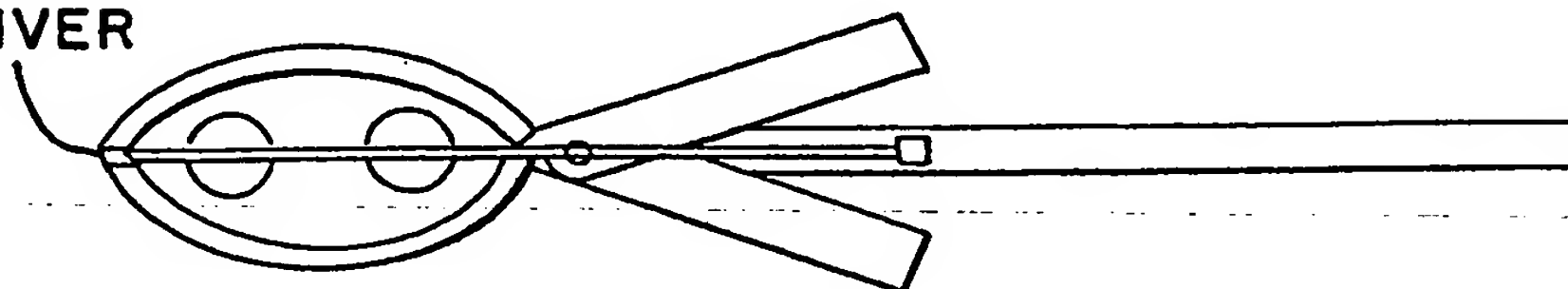


FIG.62C

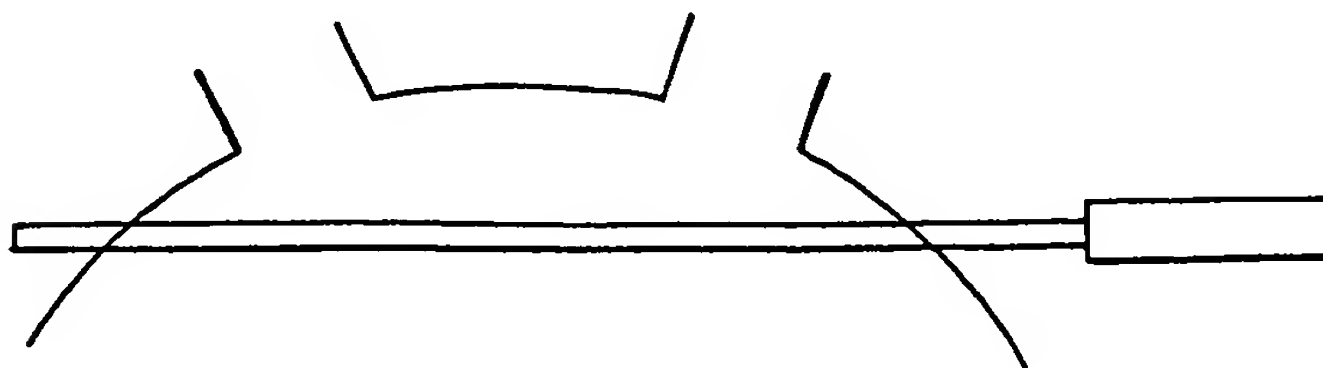


FIG. 62D

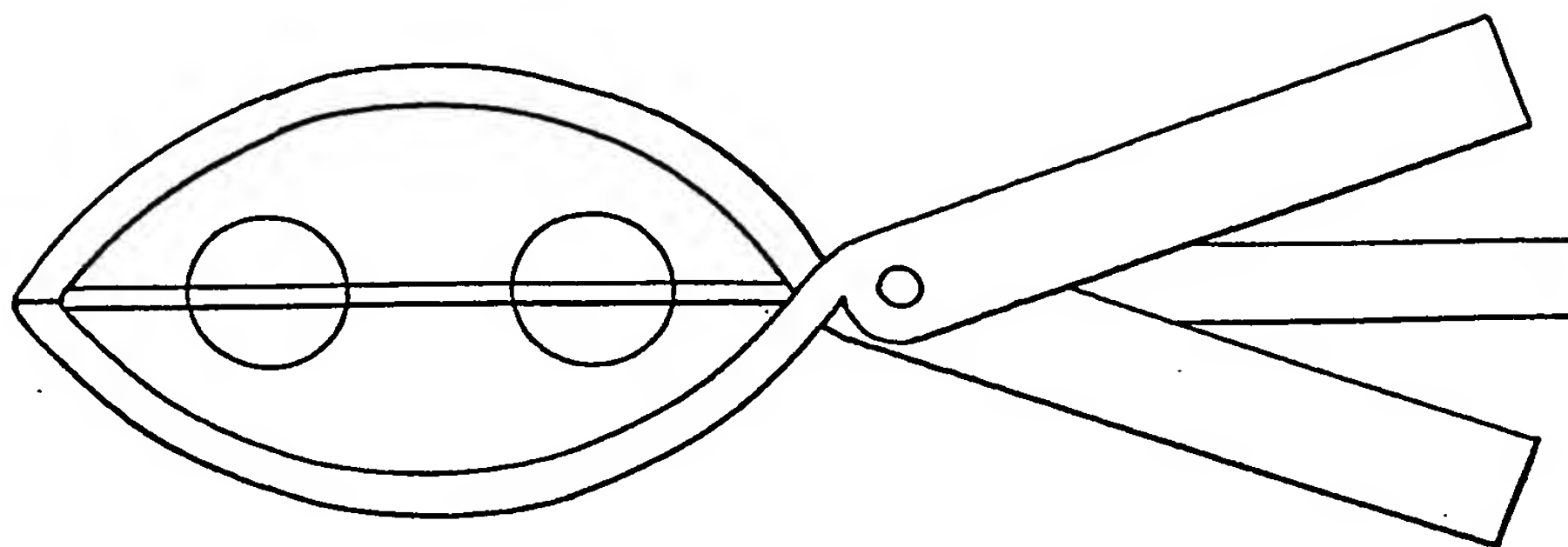


FIG. 62E

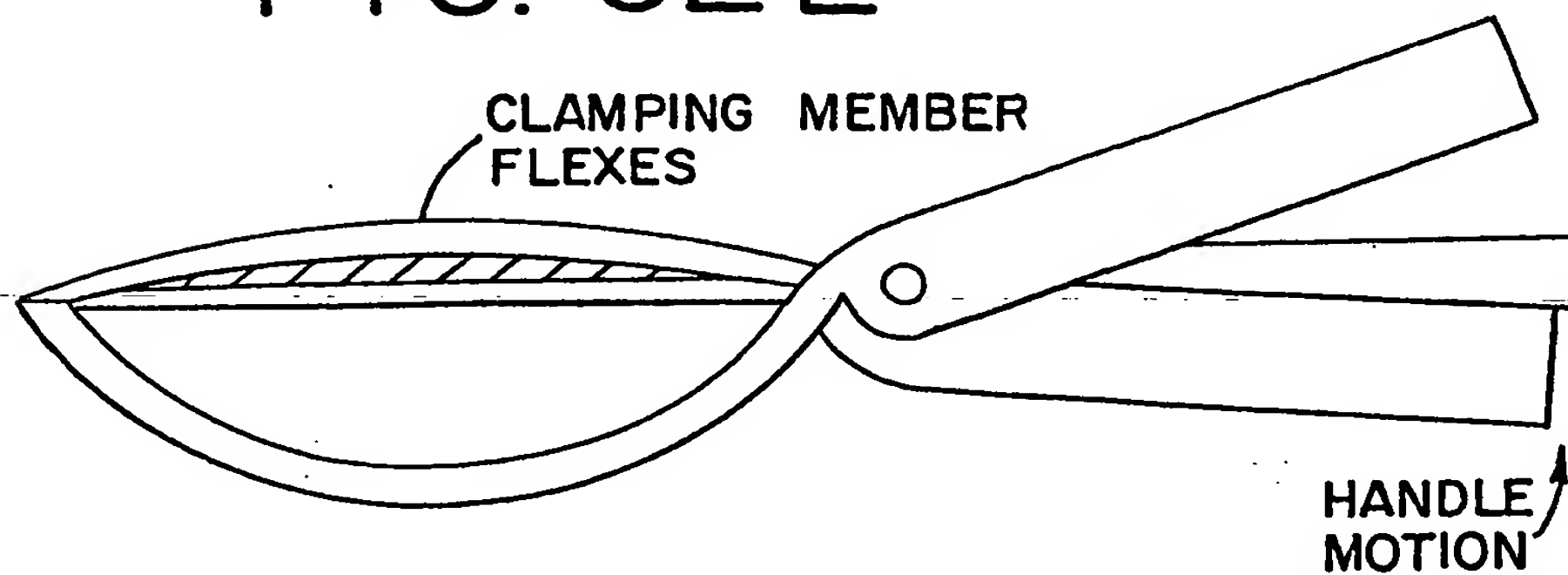


FIG. 62F

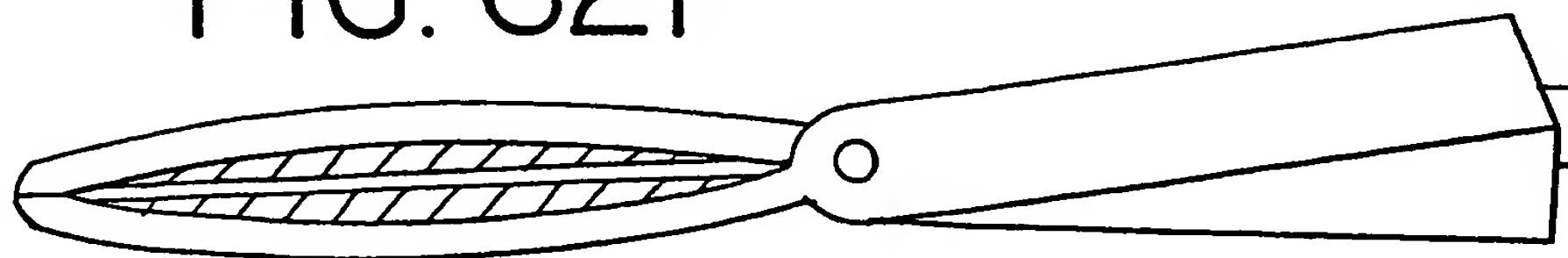




FIG. 62G

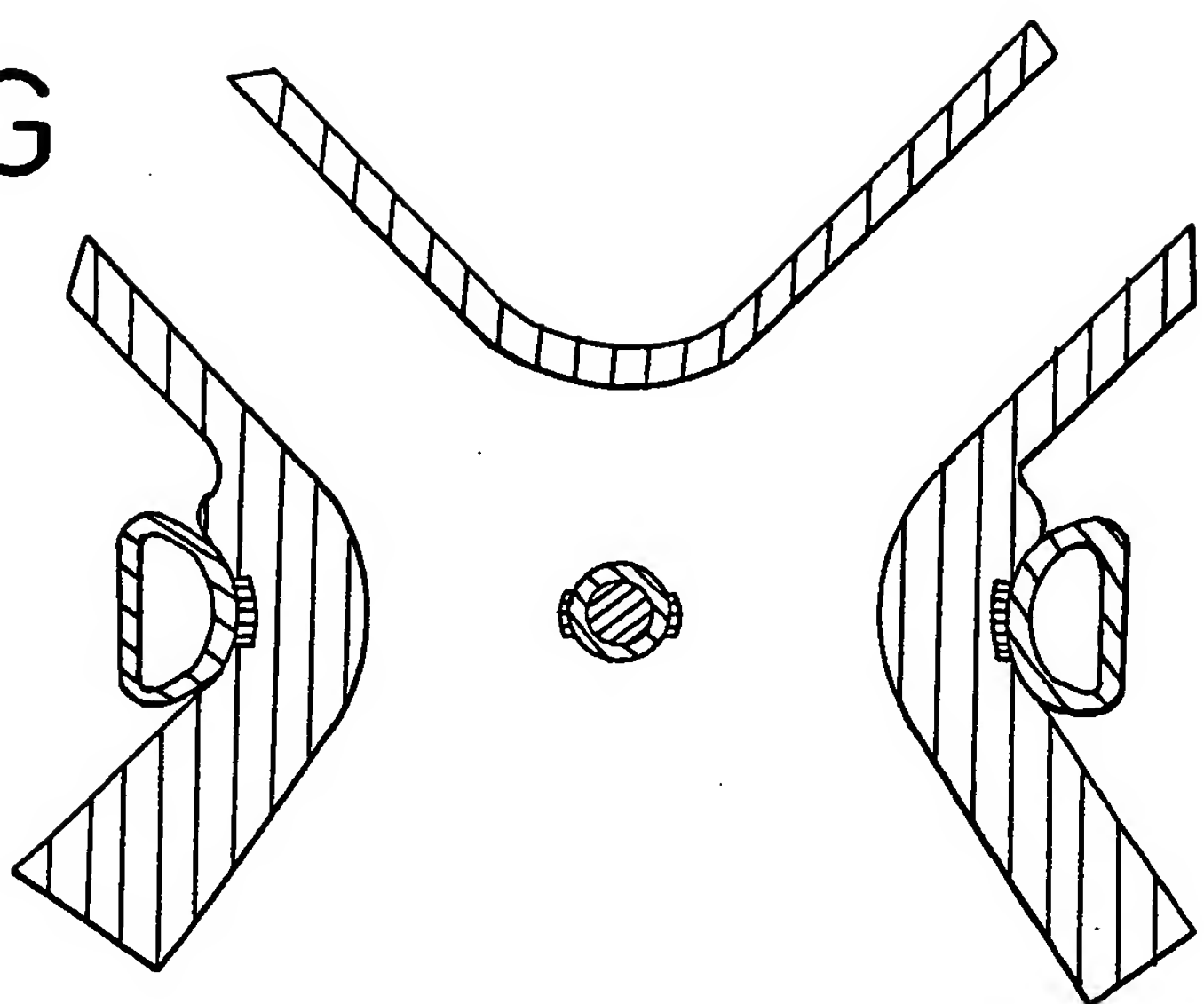


FIG. 62H

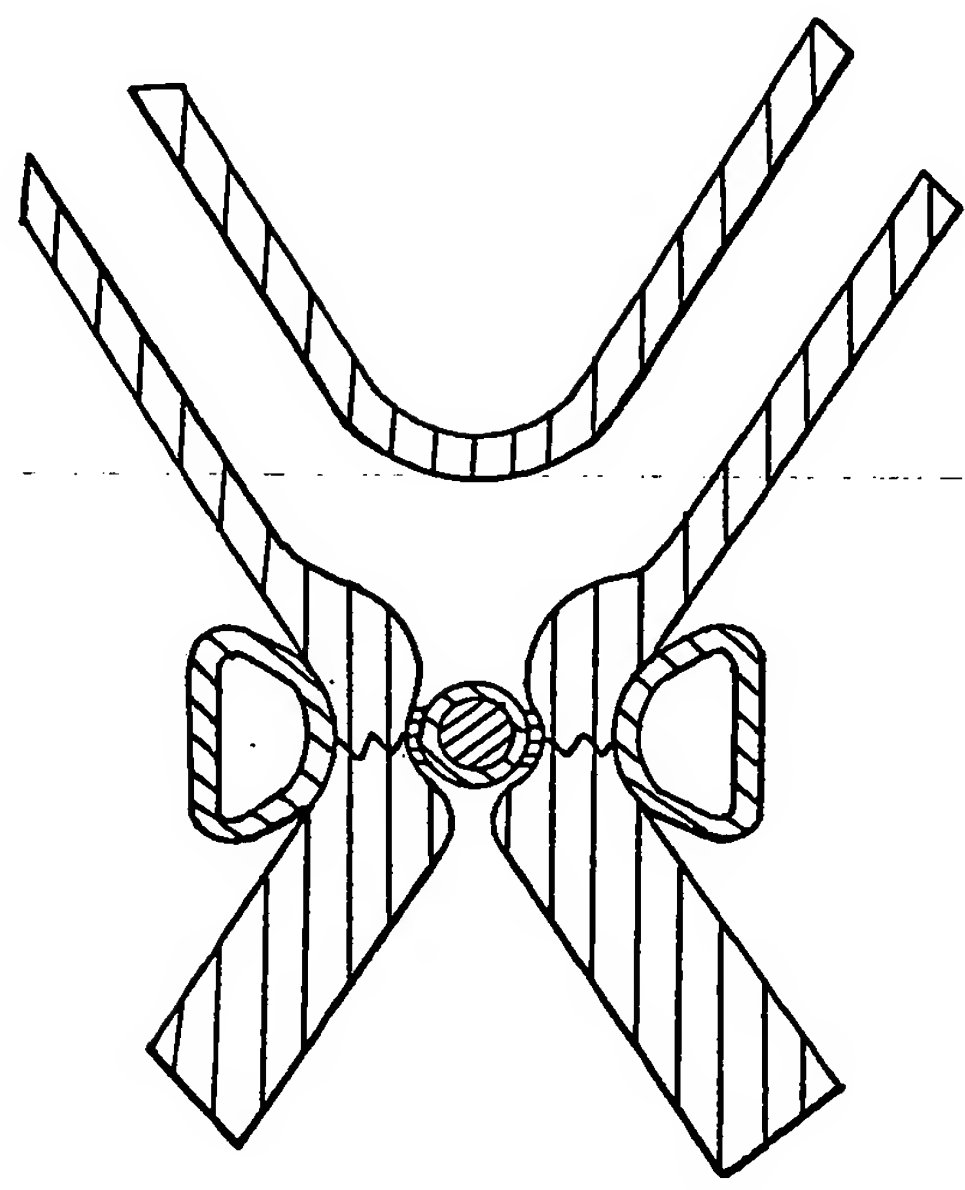
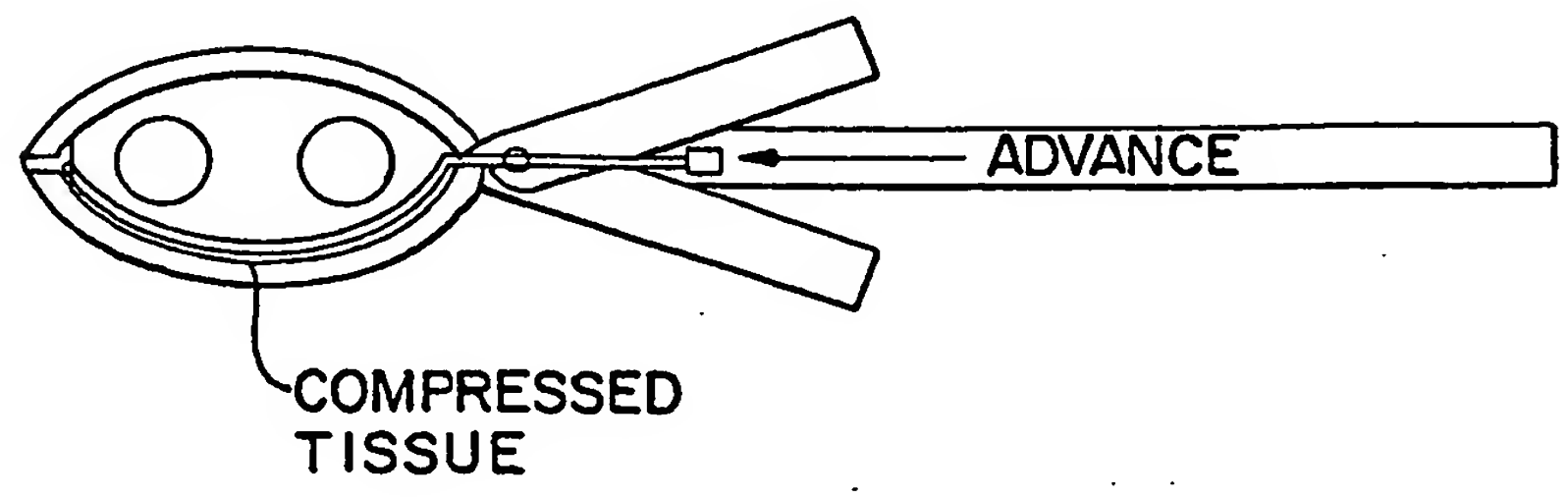


FIG. 62I



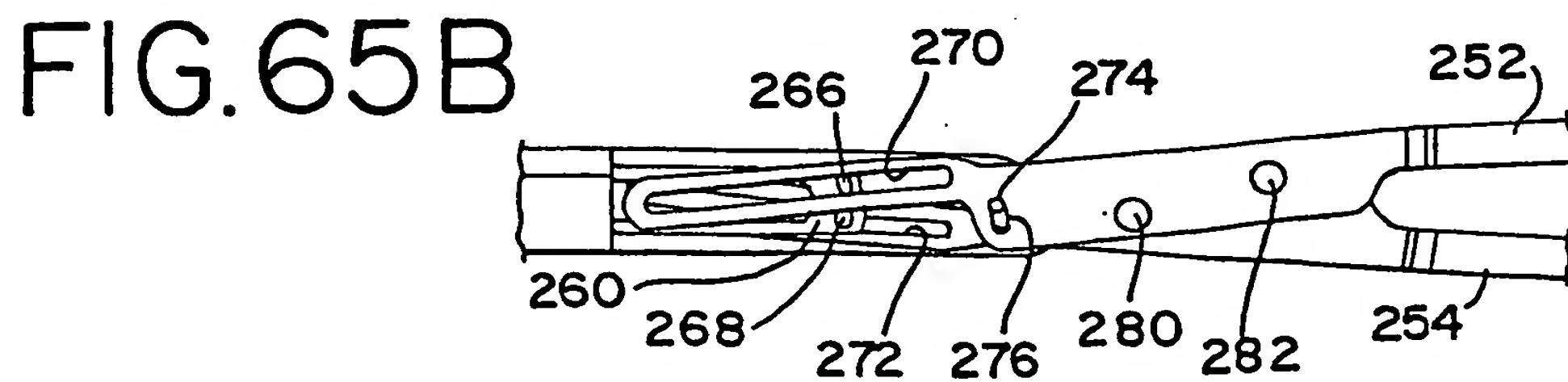
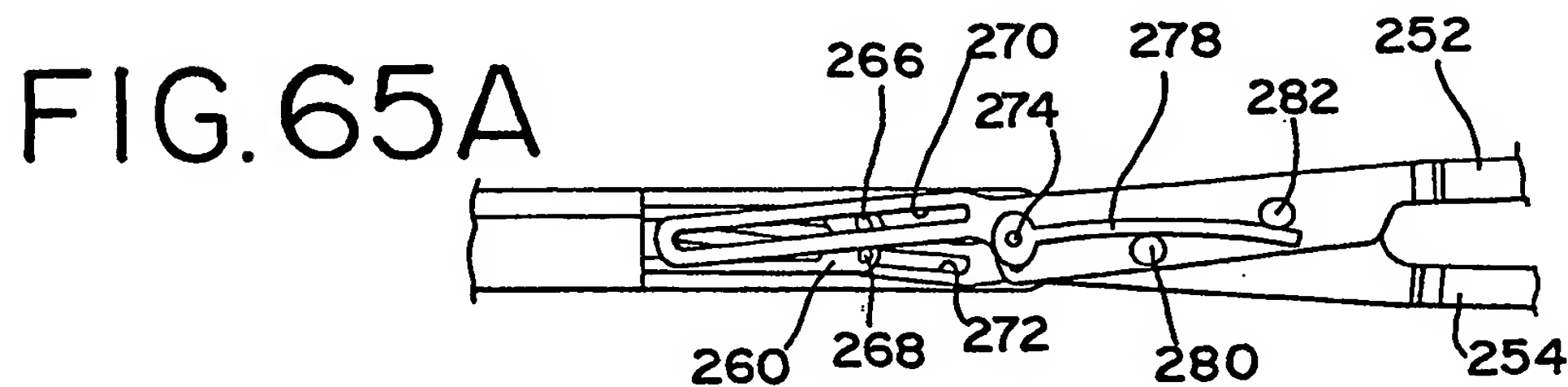
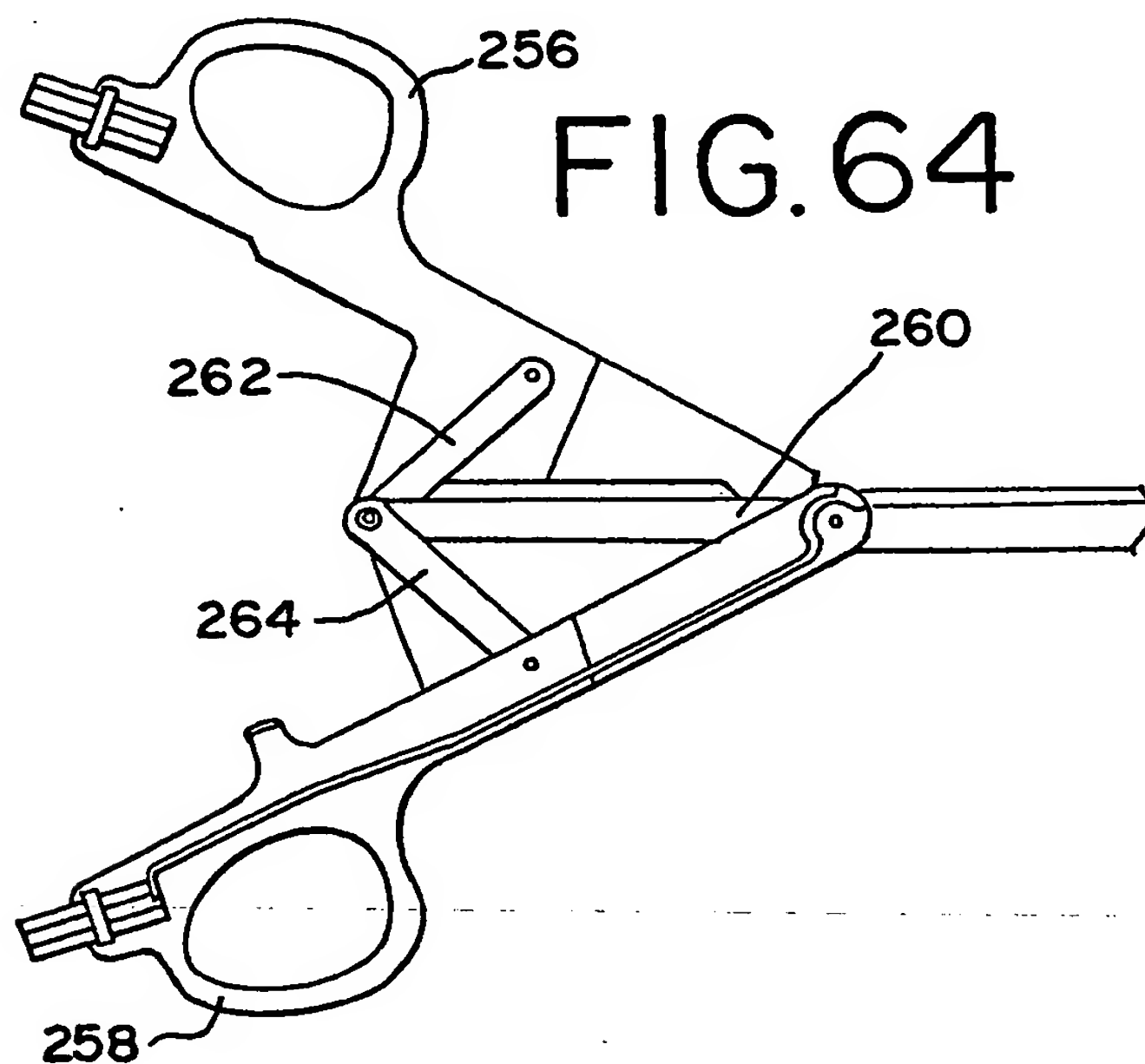
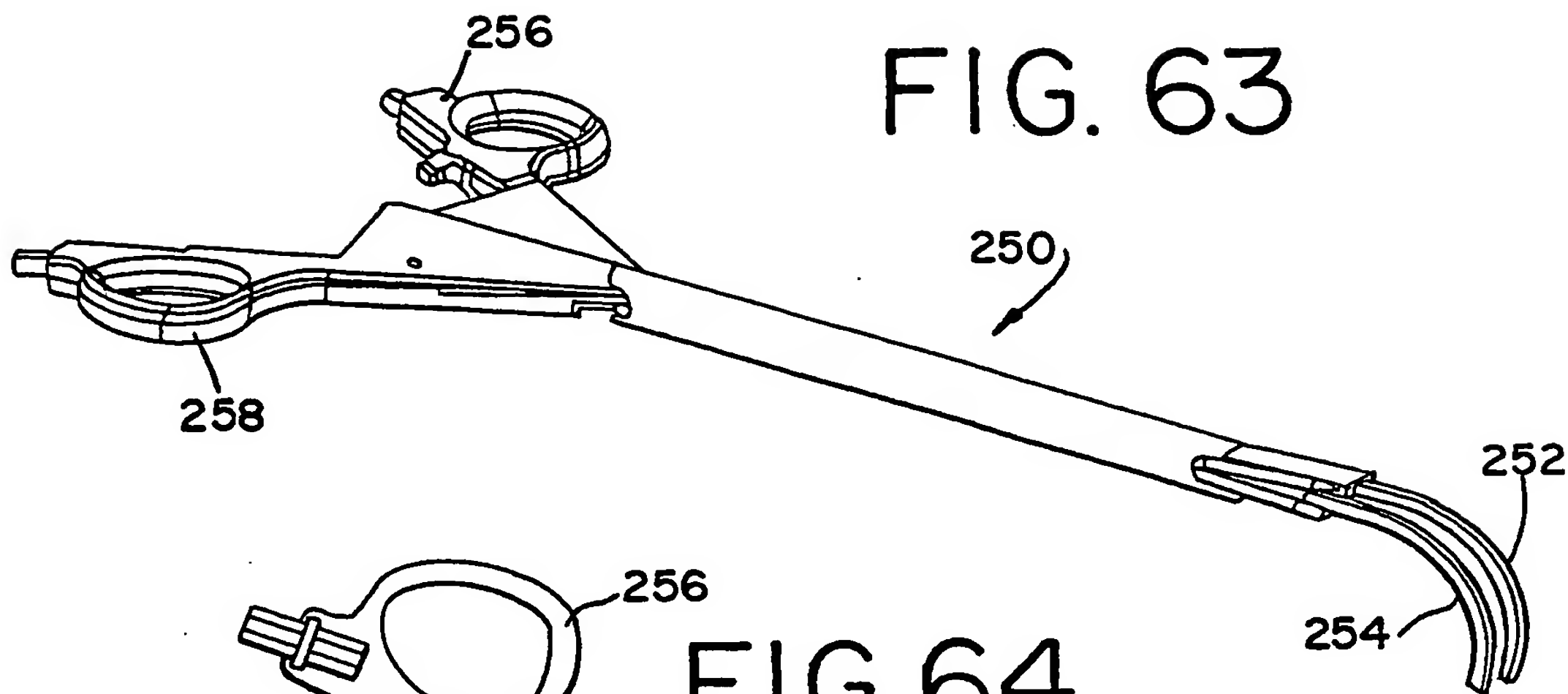


FIG. 66

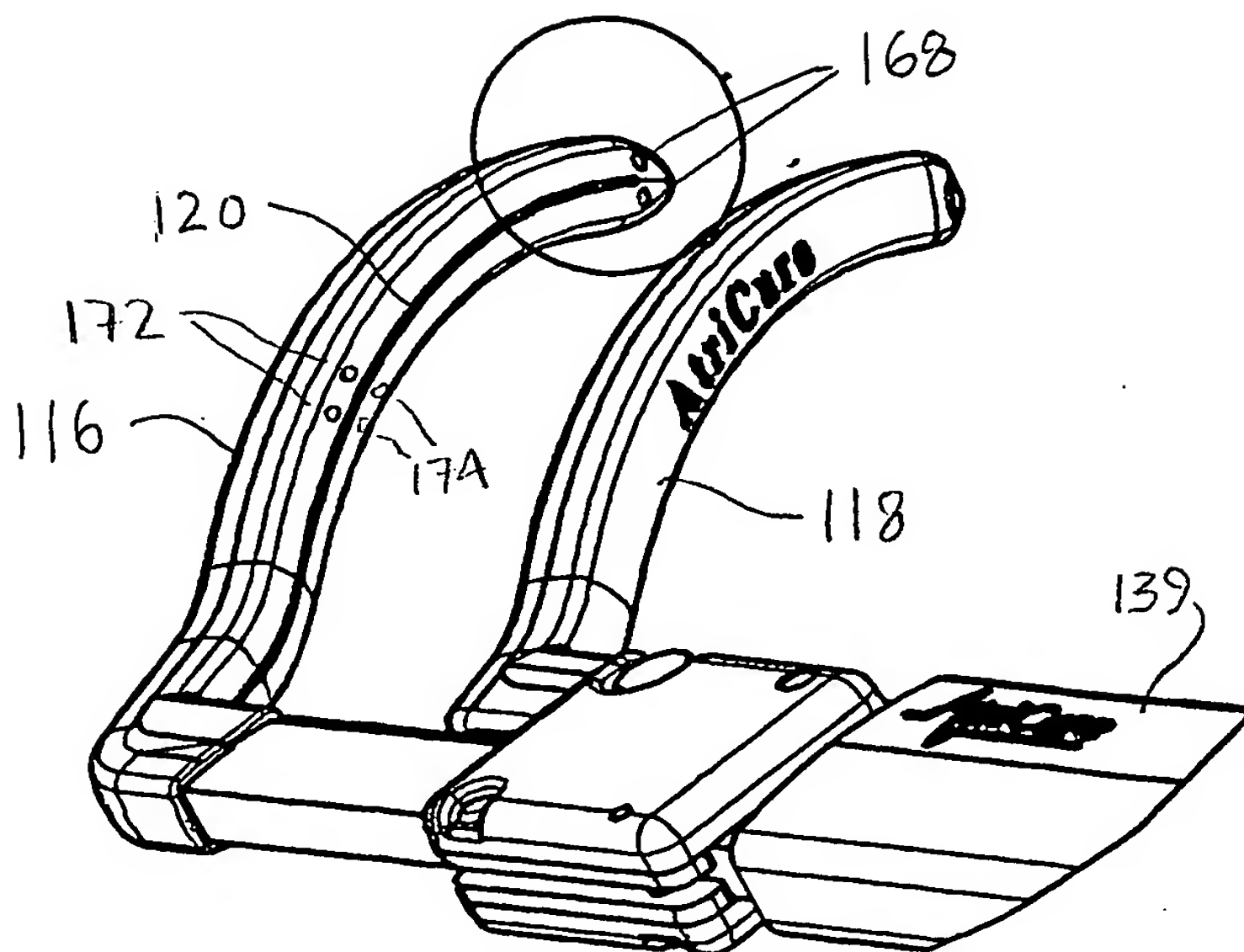
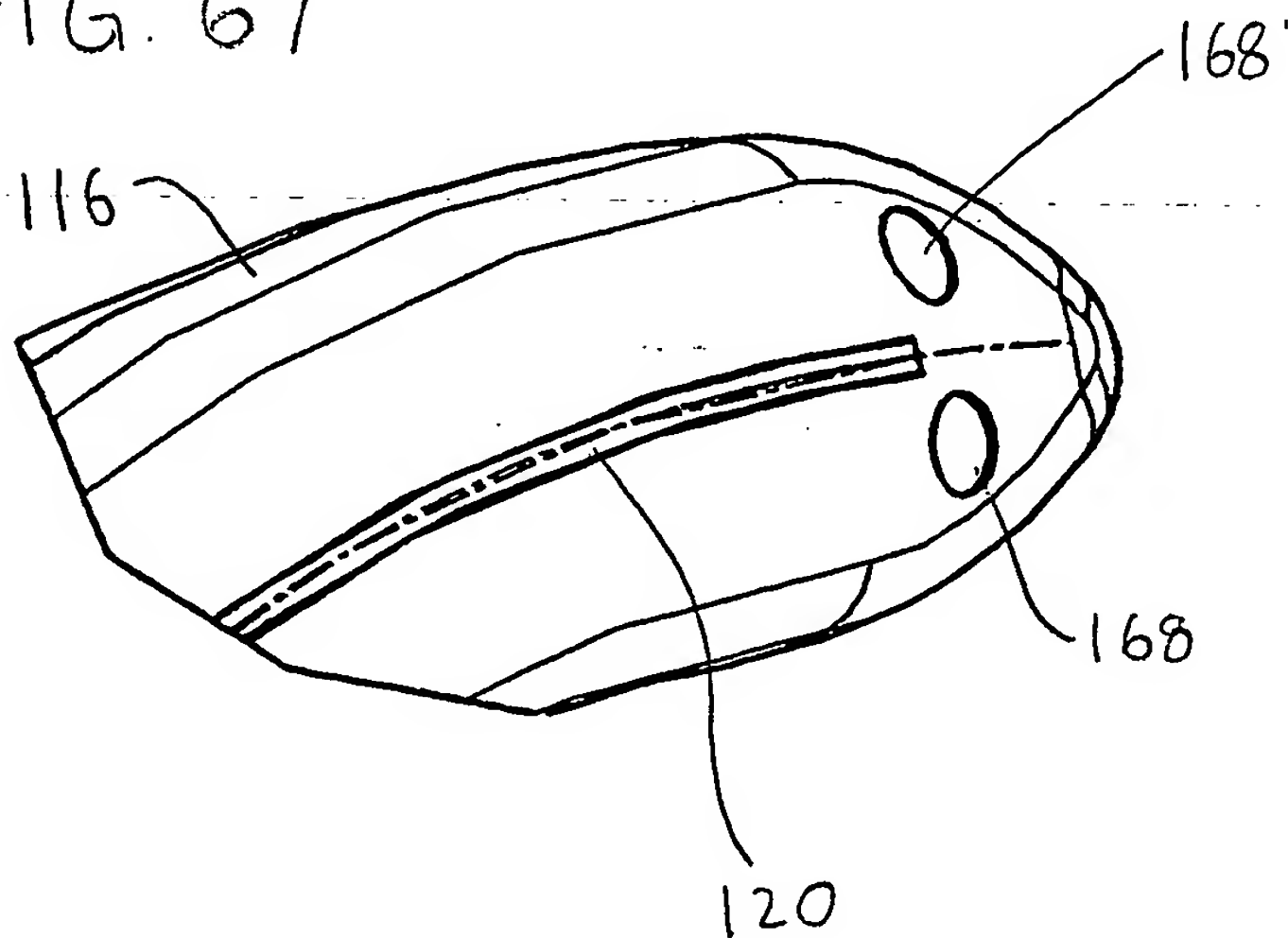


FIG. 67



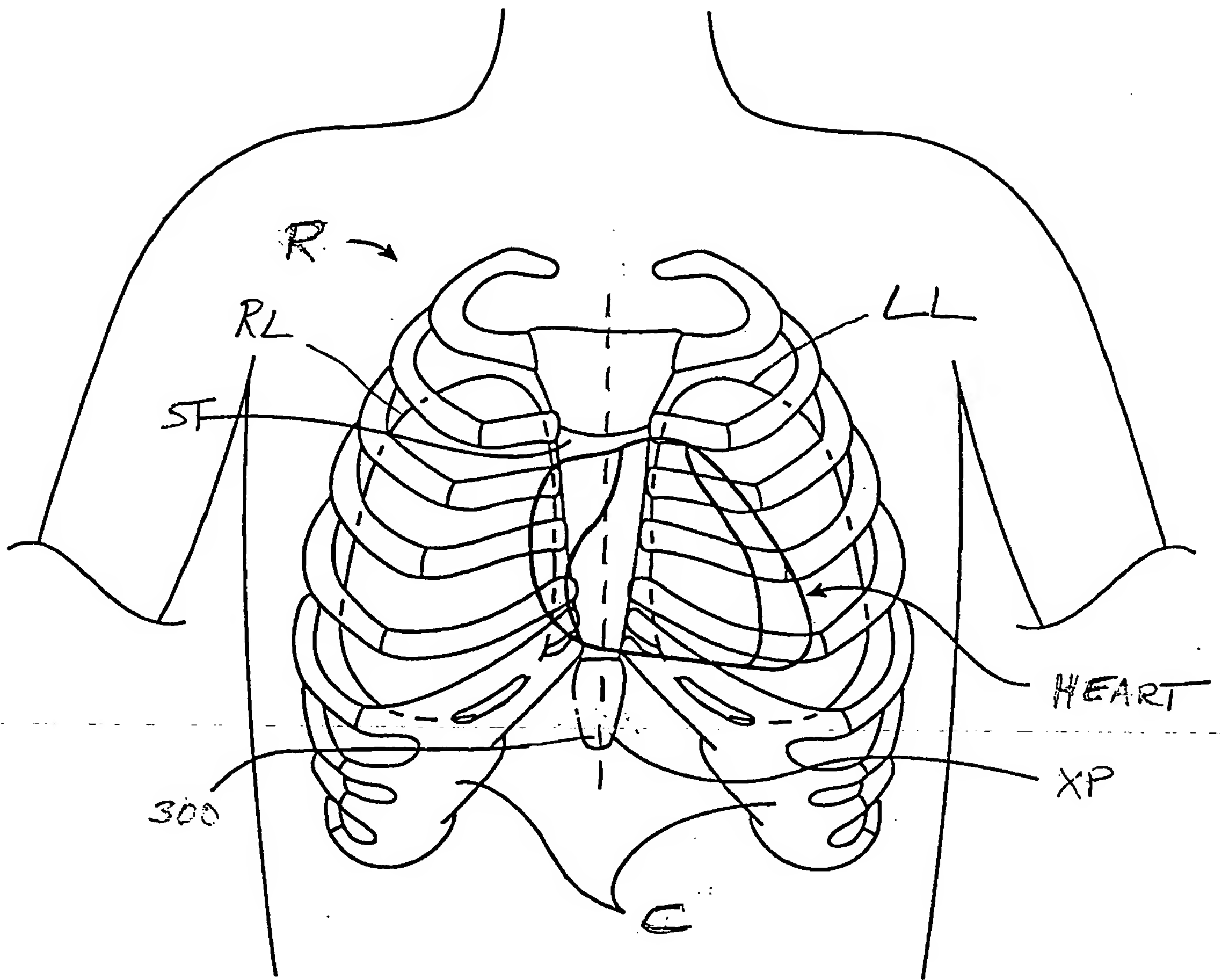


FIG. 68

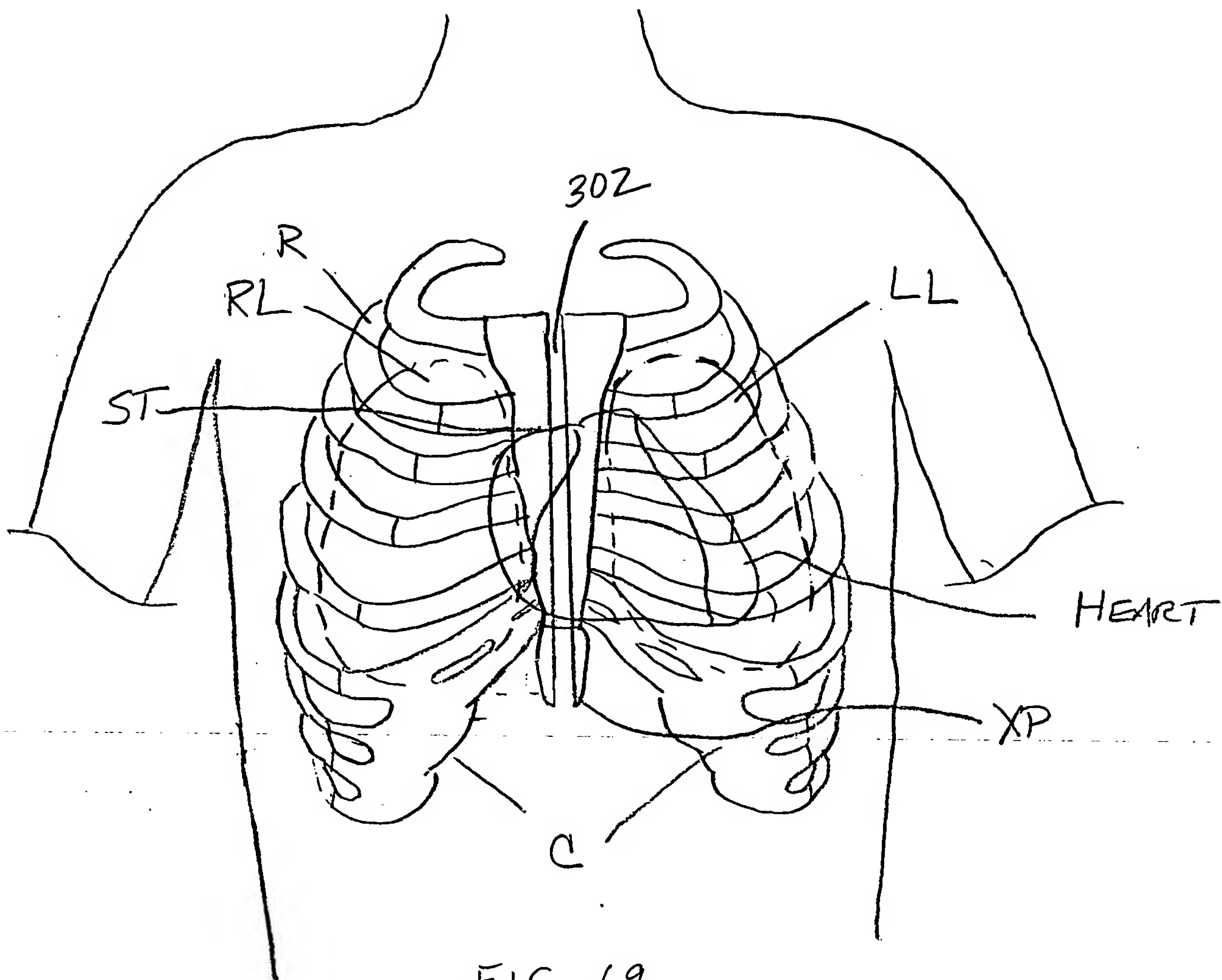


FIG. 69



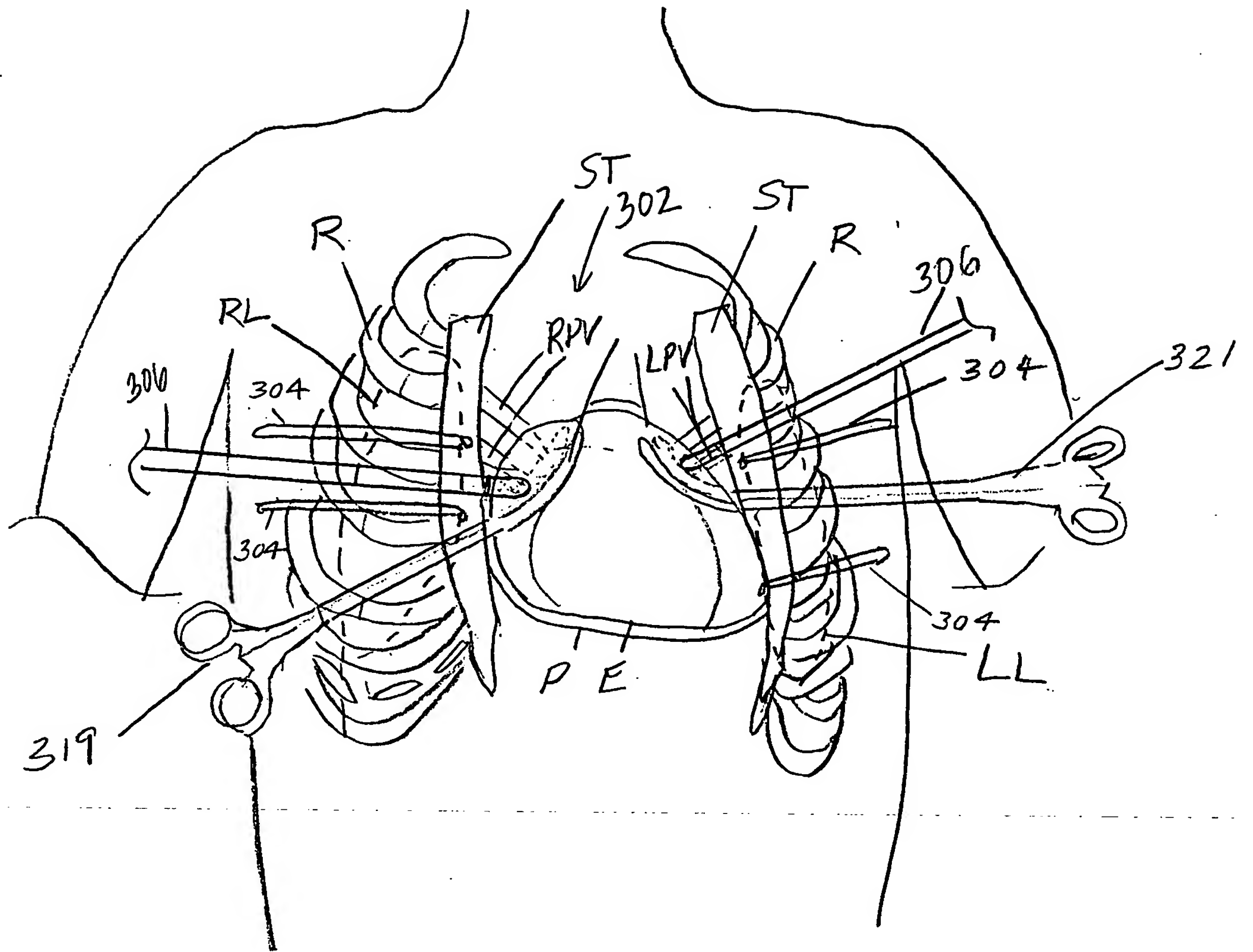


FIG. 73

FIG 74

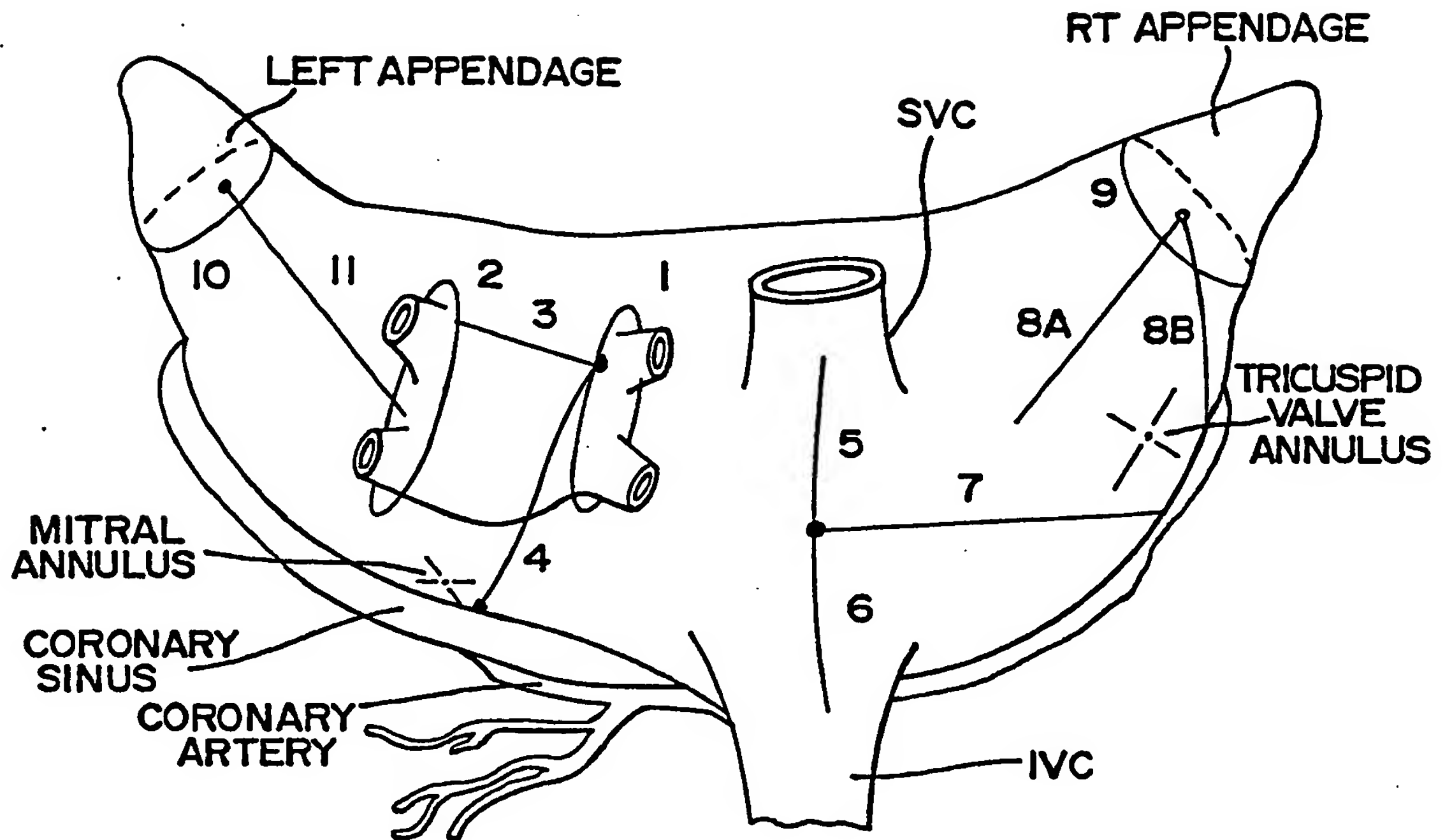


FIG. 75

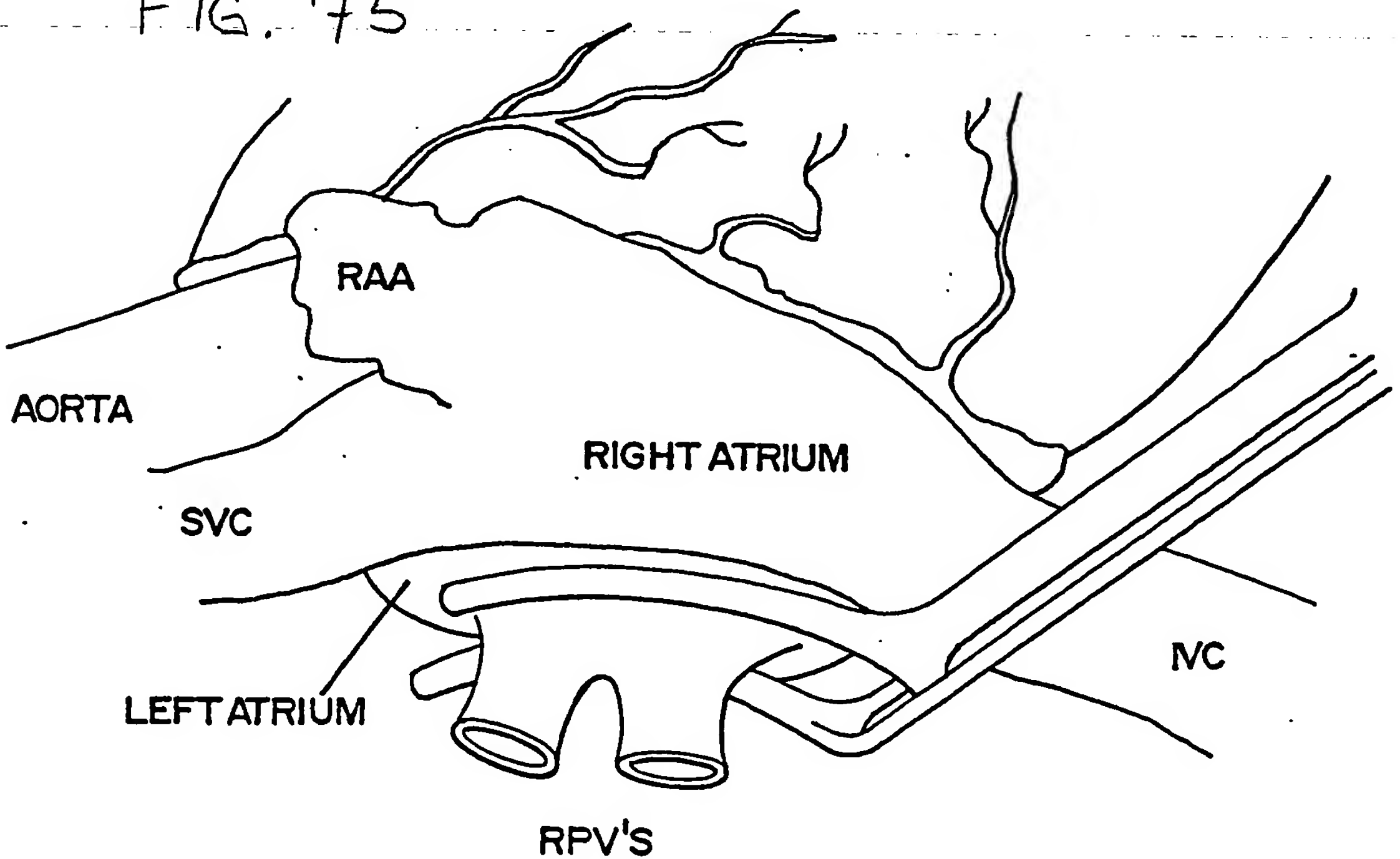




FIG. 76

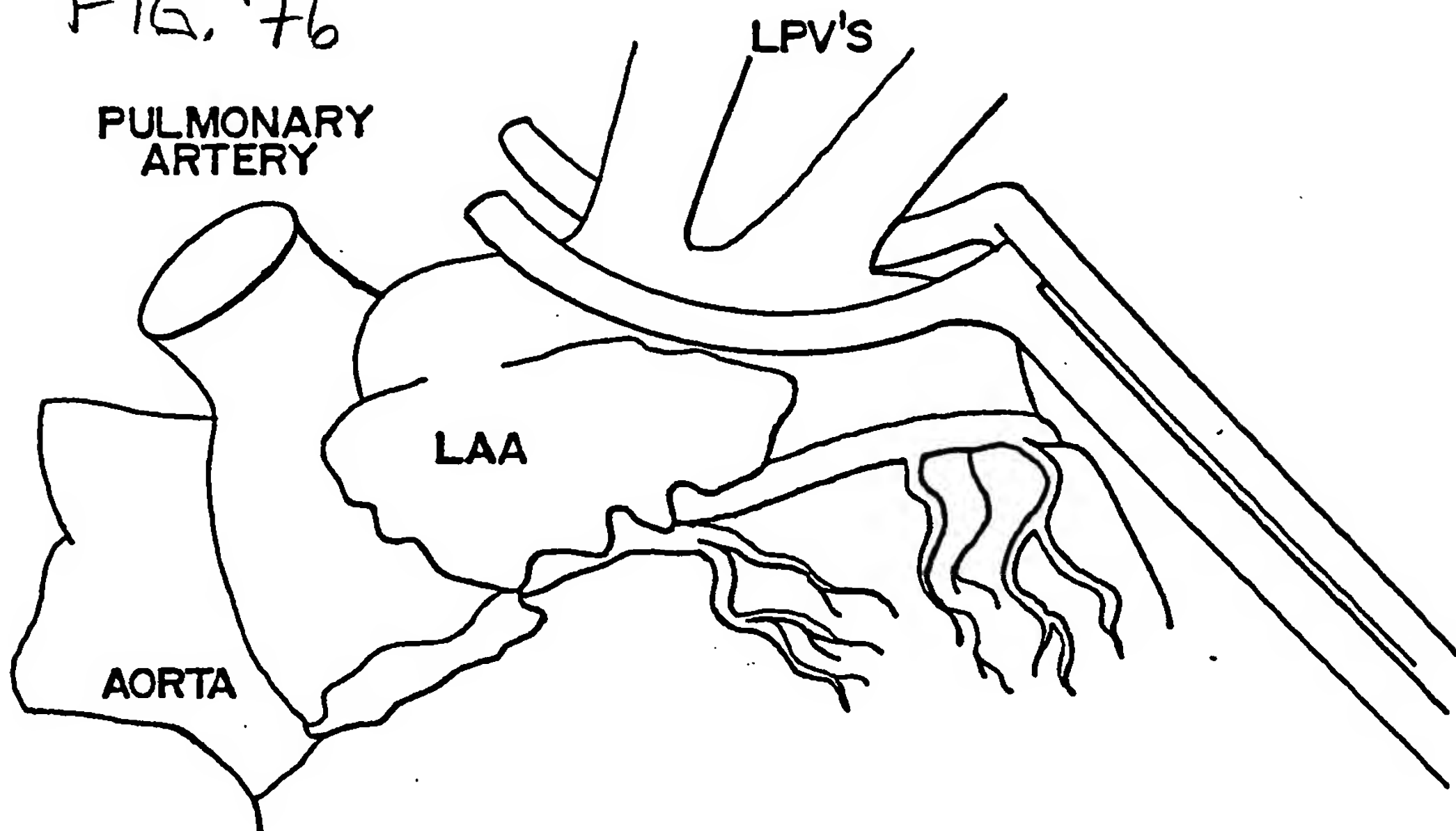
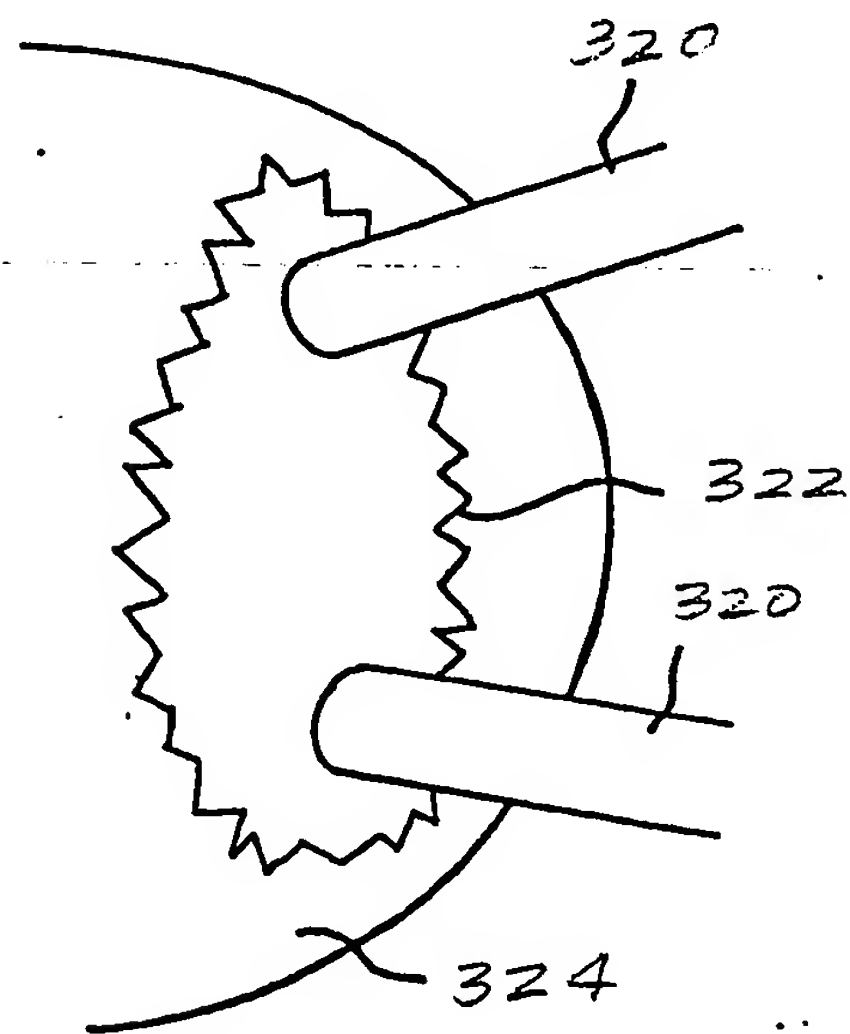


FIG. 77



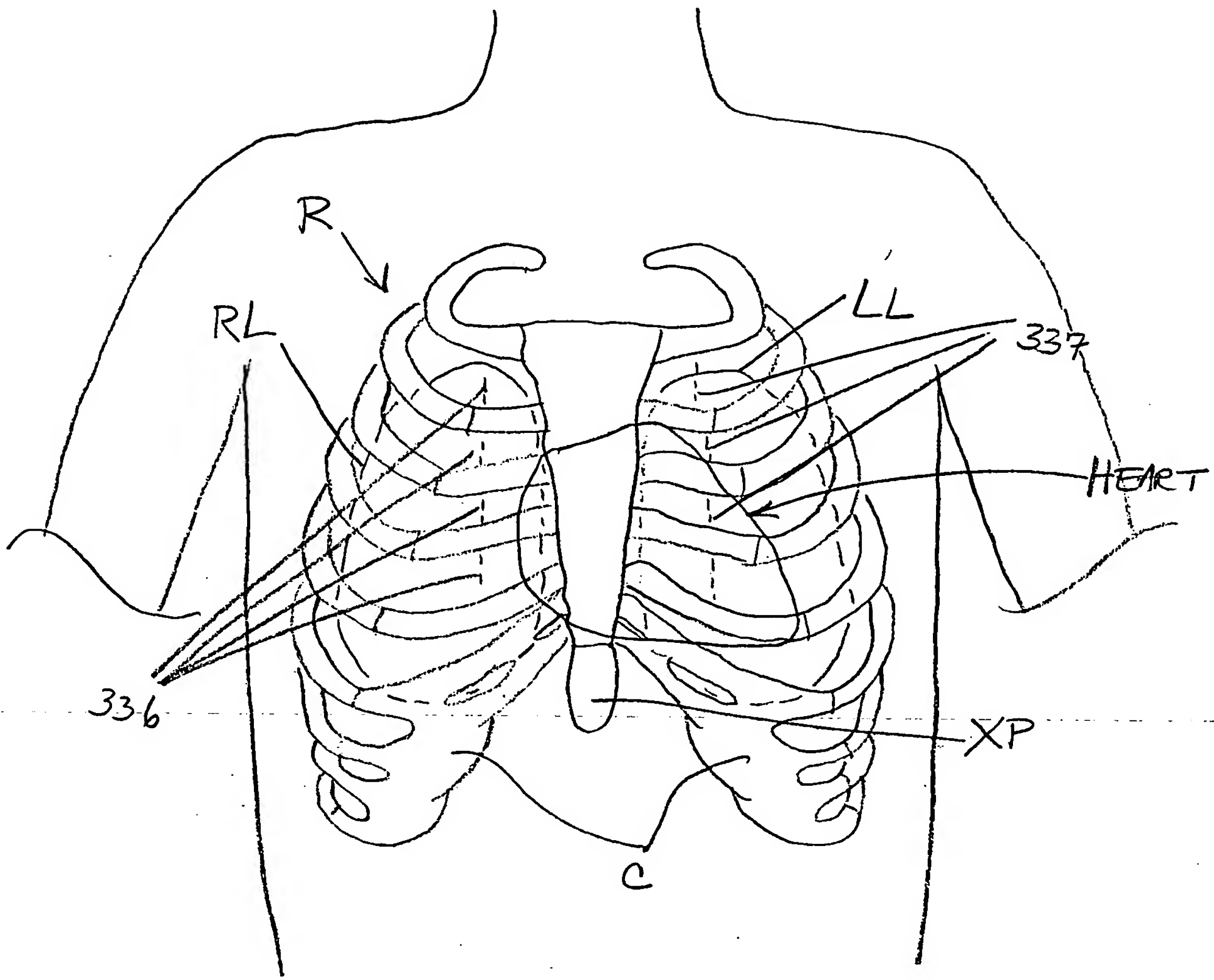


FIG. 78

FIG. 79 is a perspective view of the device in a closed position.

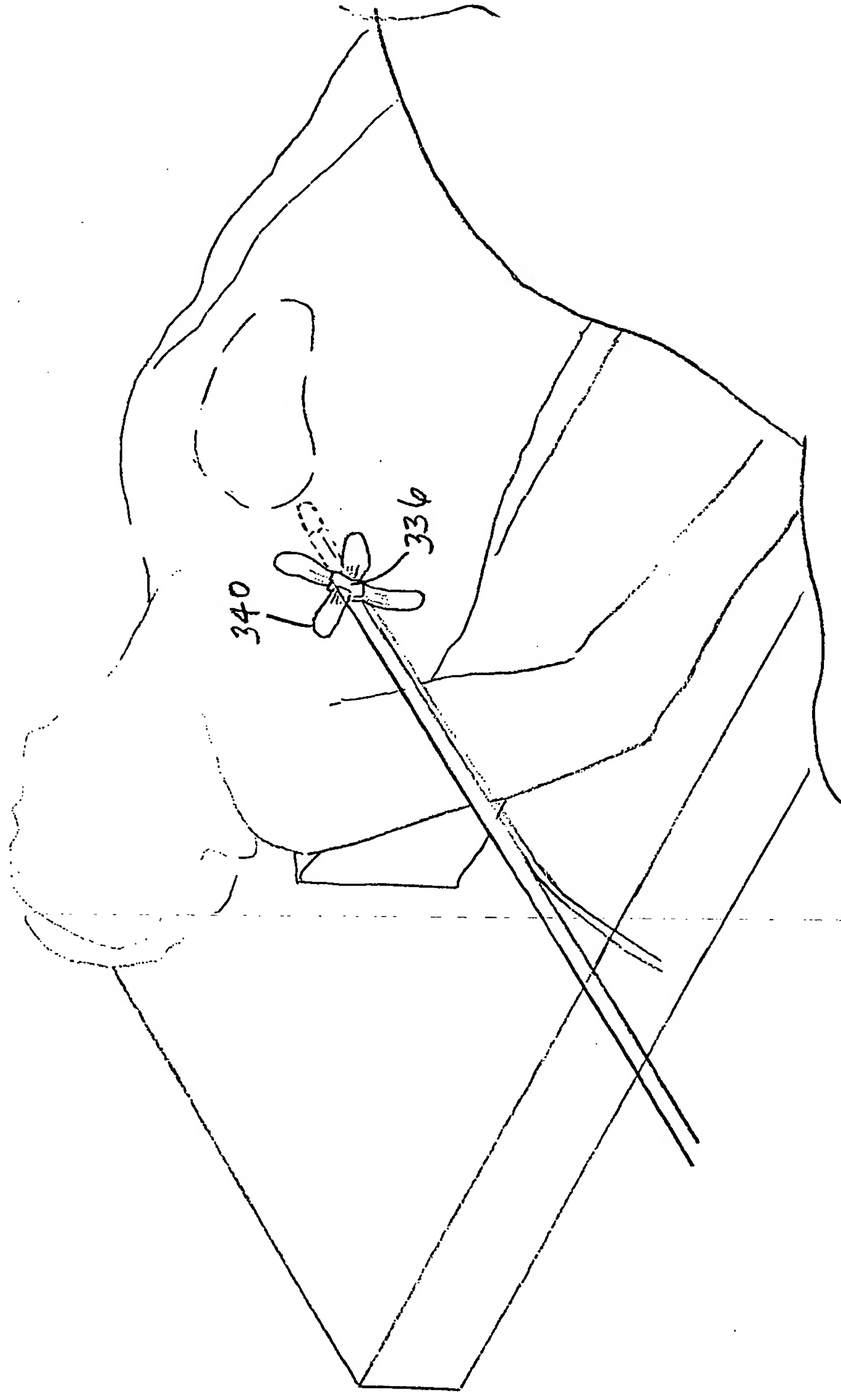


FIG. 79

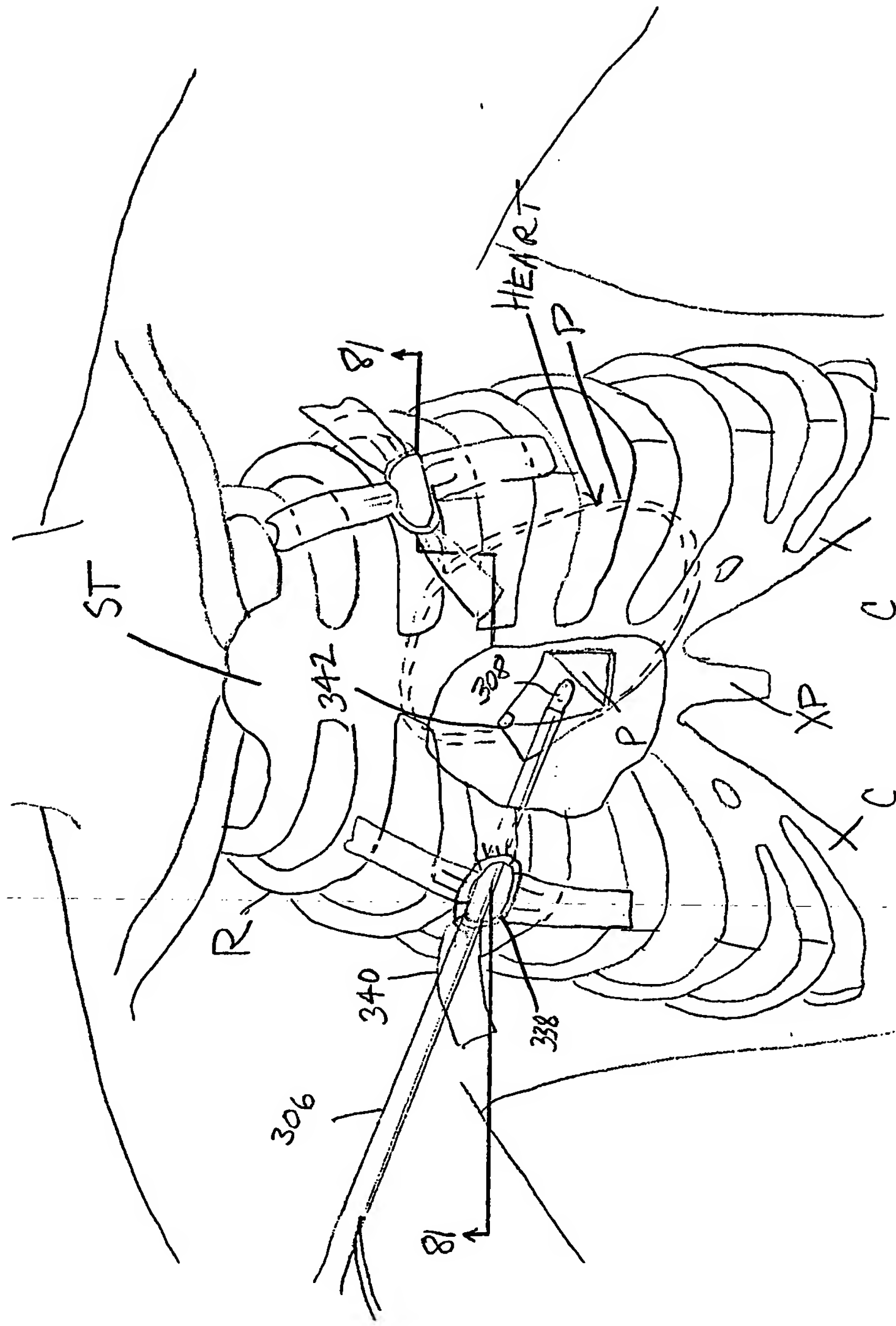


Fig. 80



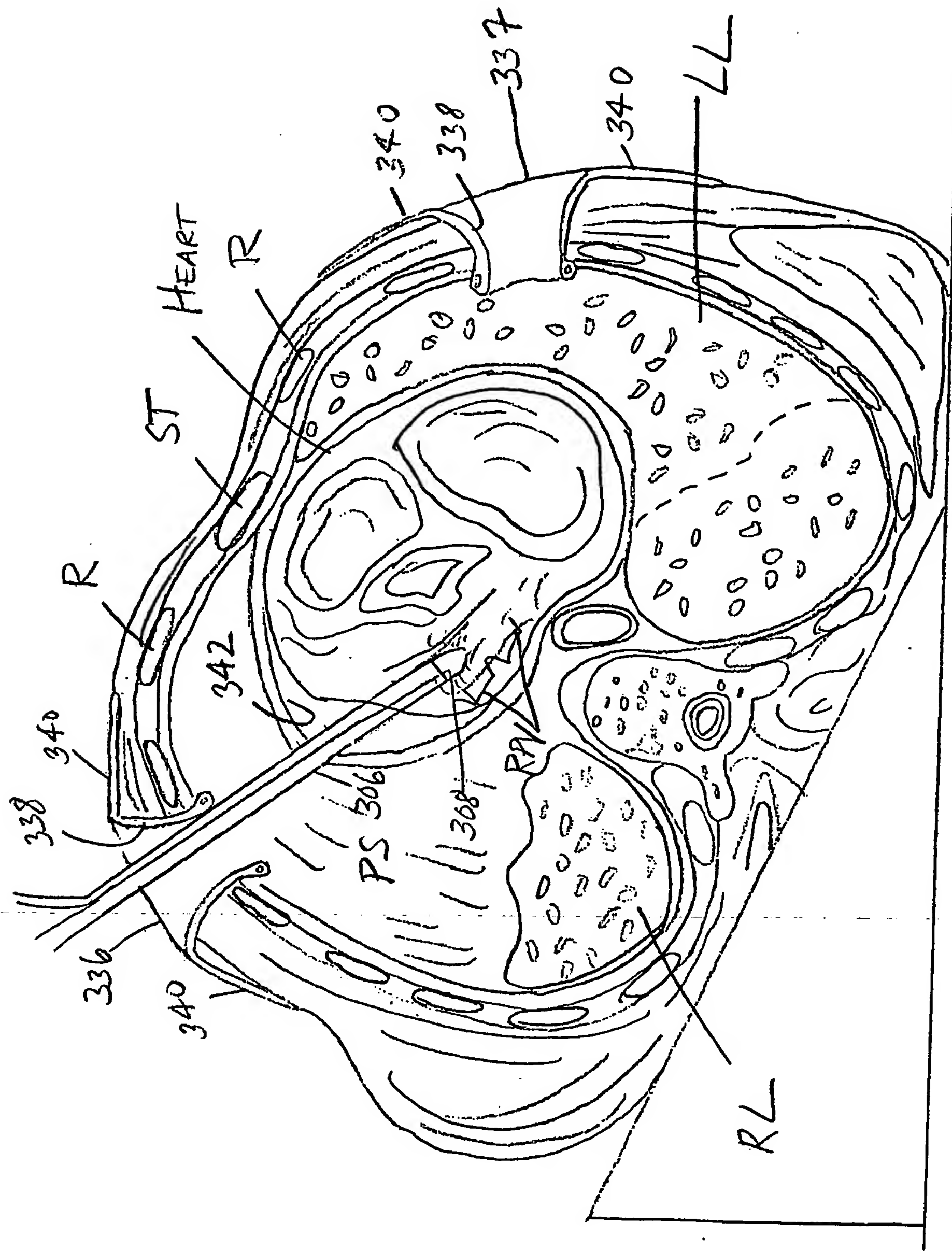


FIG. 82



FIG. 83 is a perspective view of the device in accordance with the present invention, showing the device in a closed position. The device includes a handle 352, a shaft 354, and a head 356. The handle 352 is connected to the shaft 354, which is connected to the head 356. The head 356 is in a closed position, with the two arms of the head 356 facing each other.

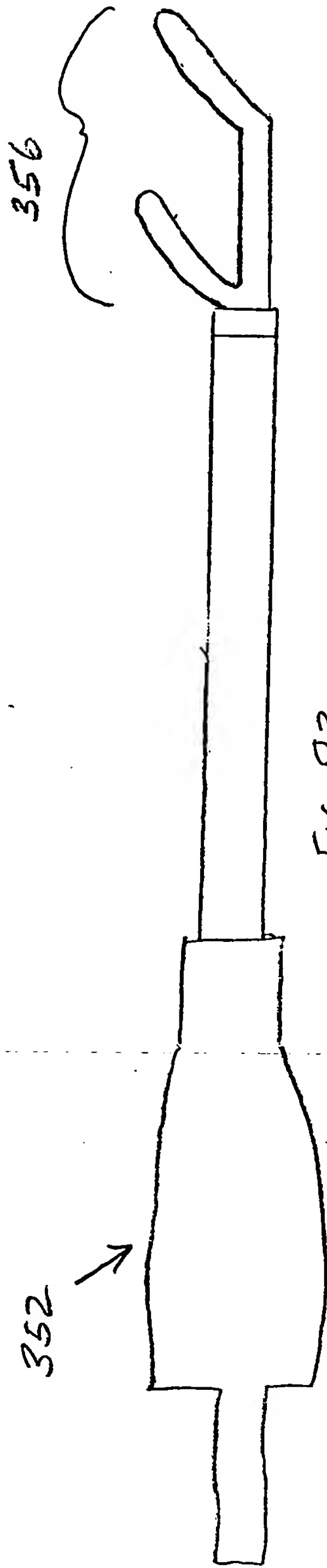


FIG. 83

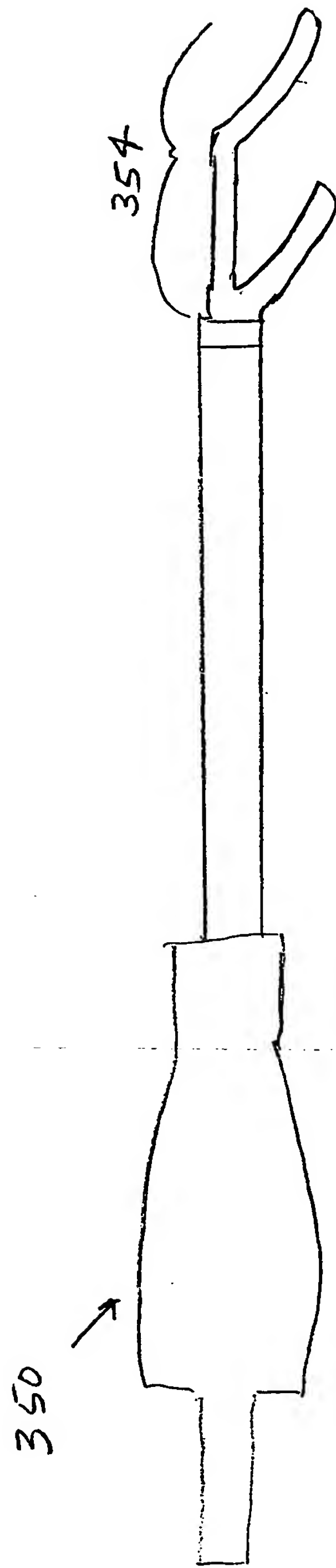


FIG. 83A









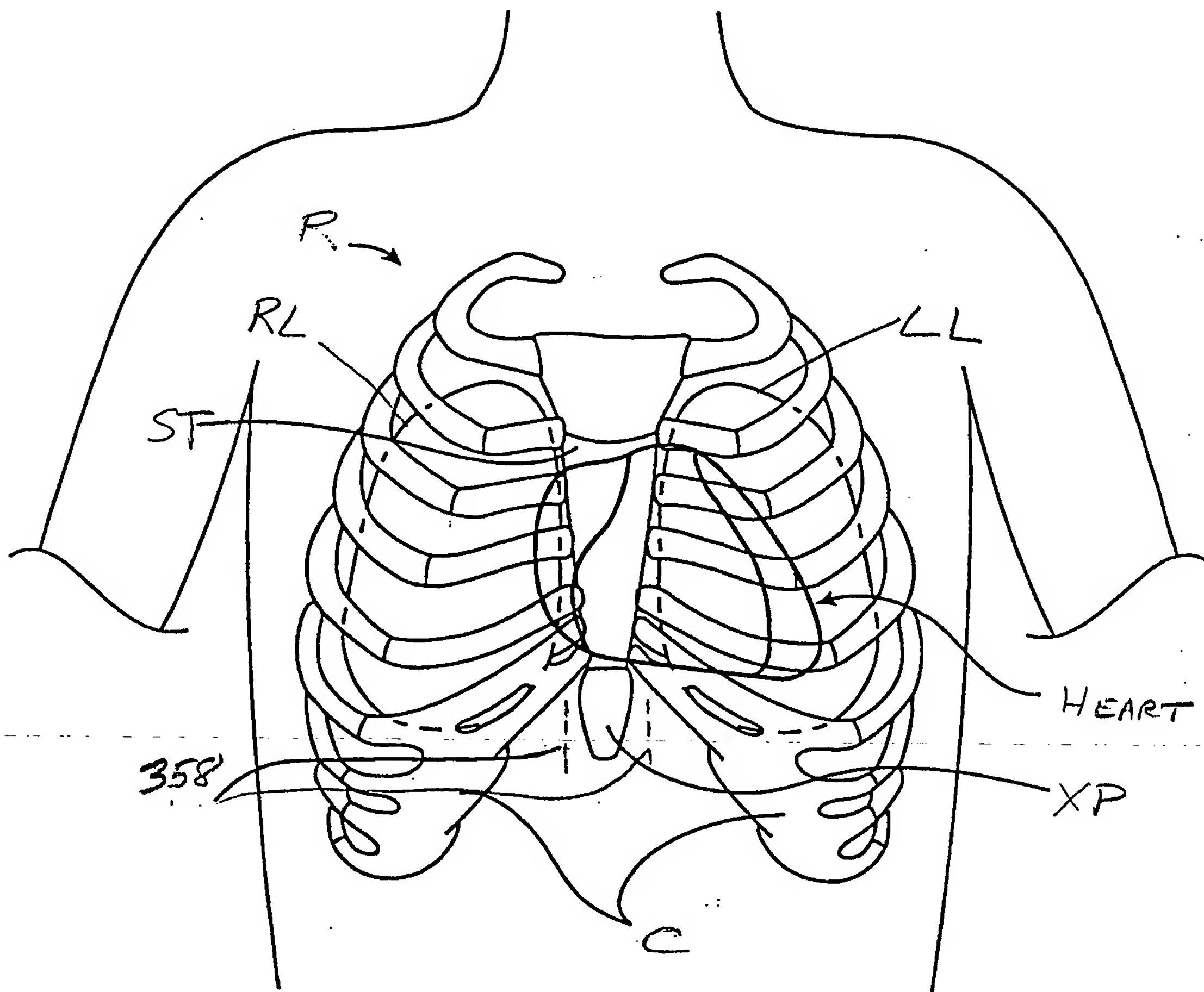


FIG. 87

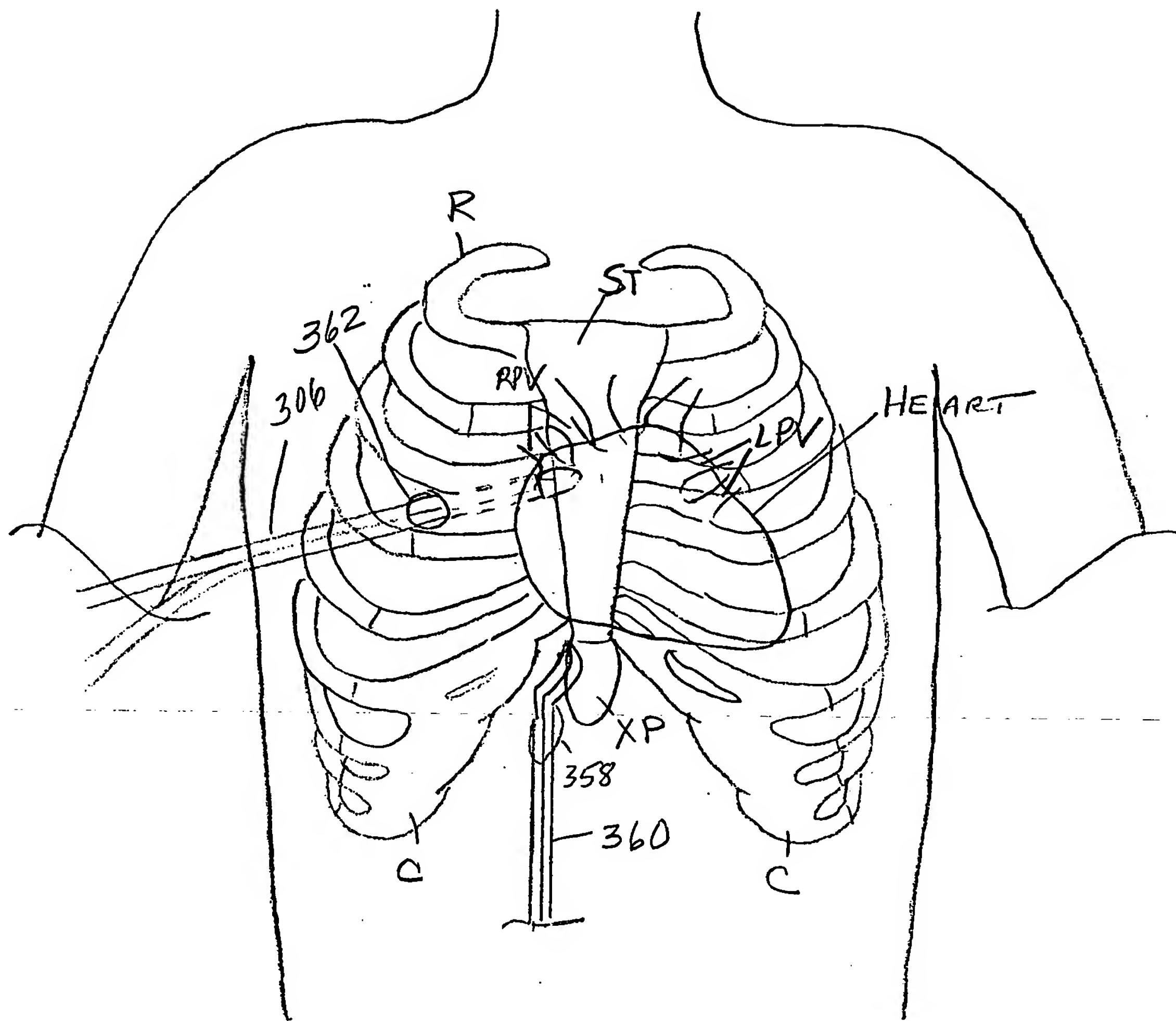


FIG. 88

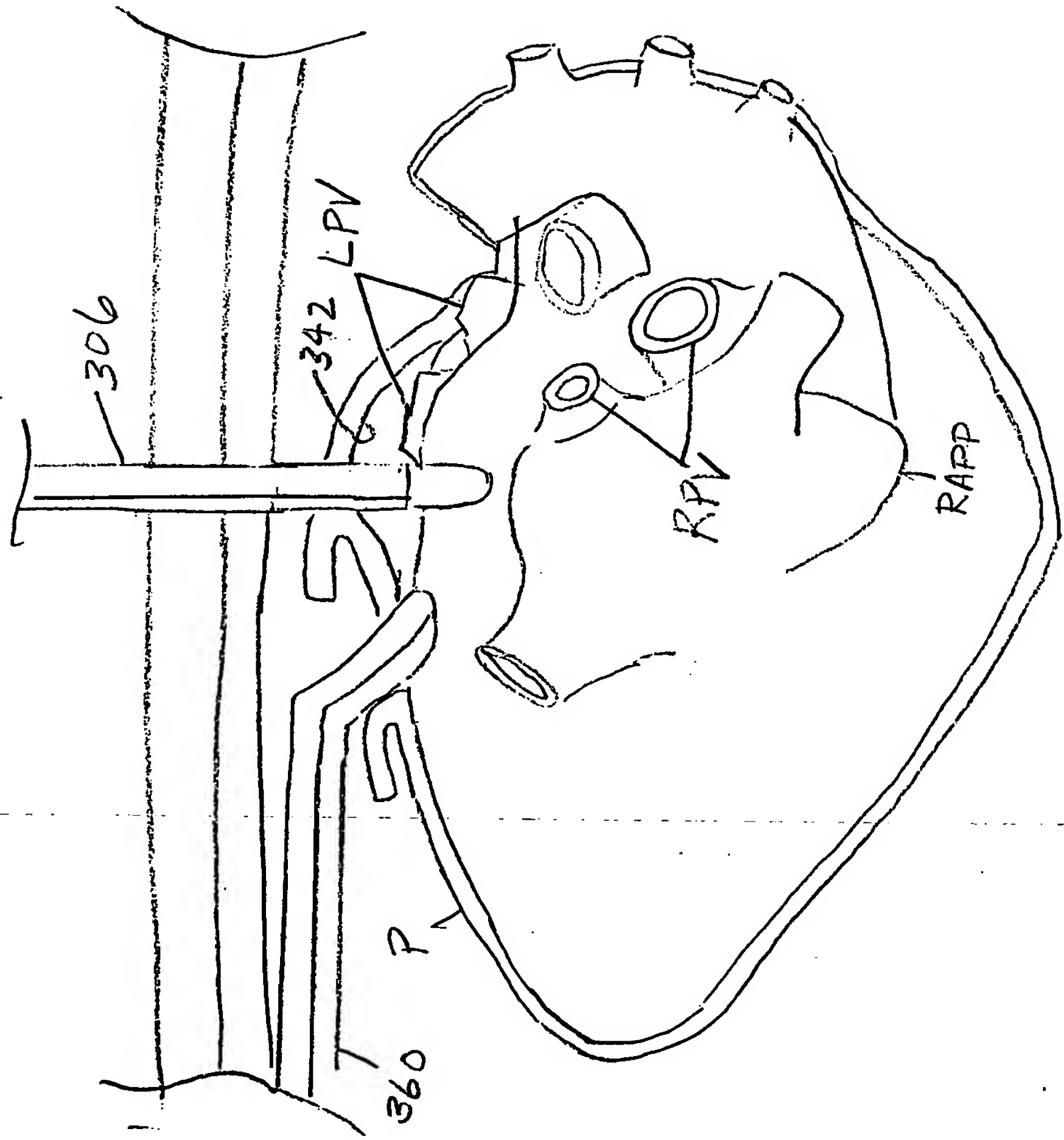


FIG 89

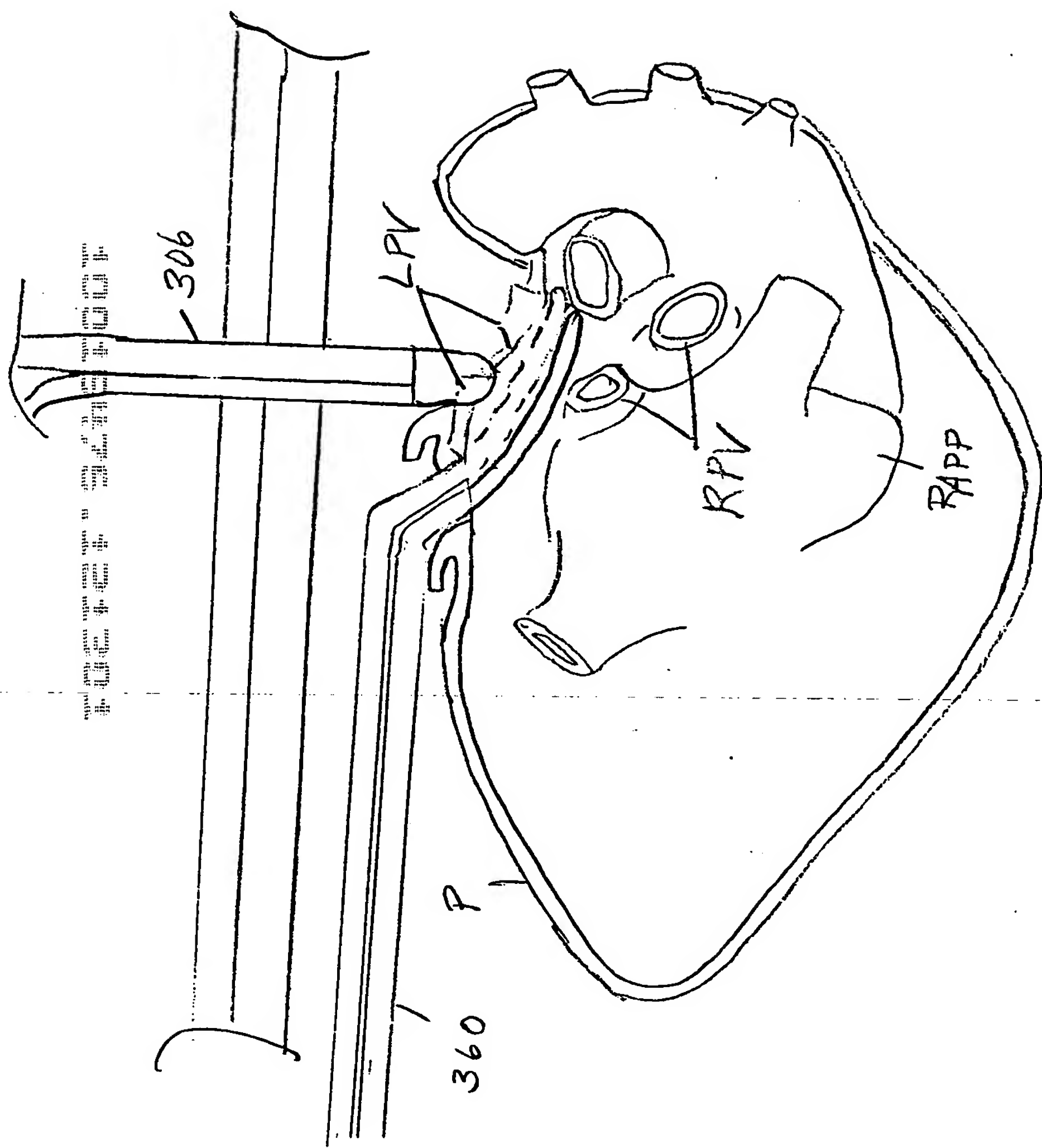


FIG. 90

x





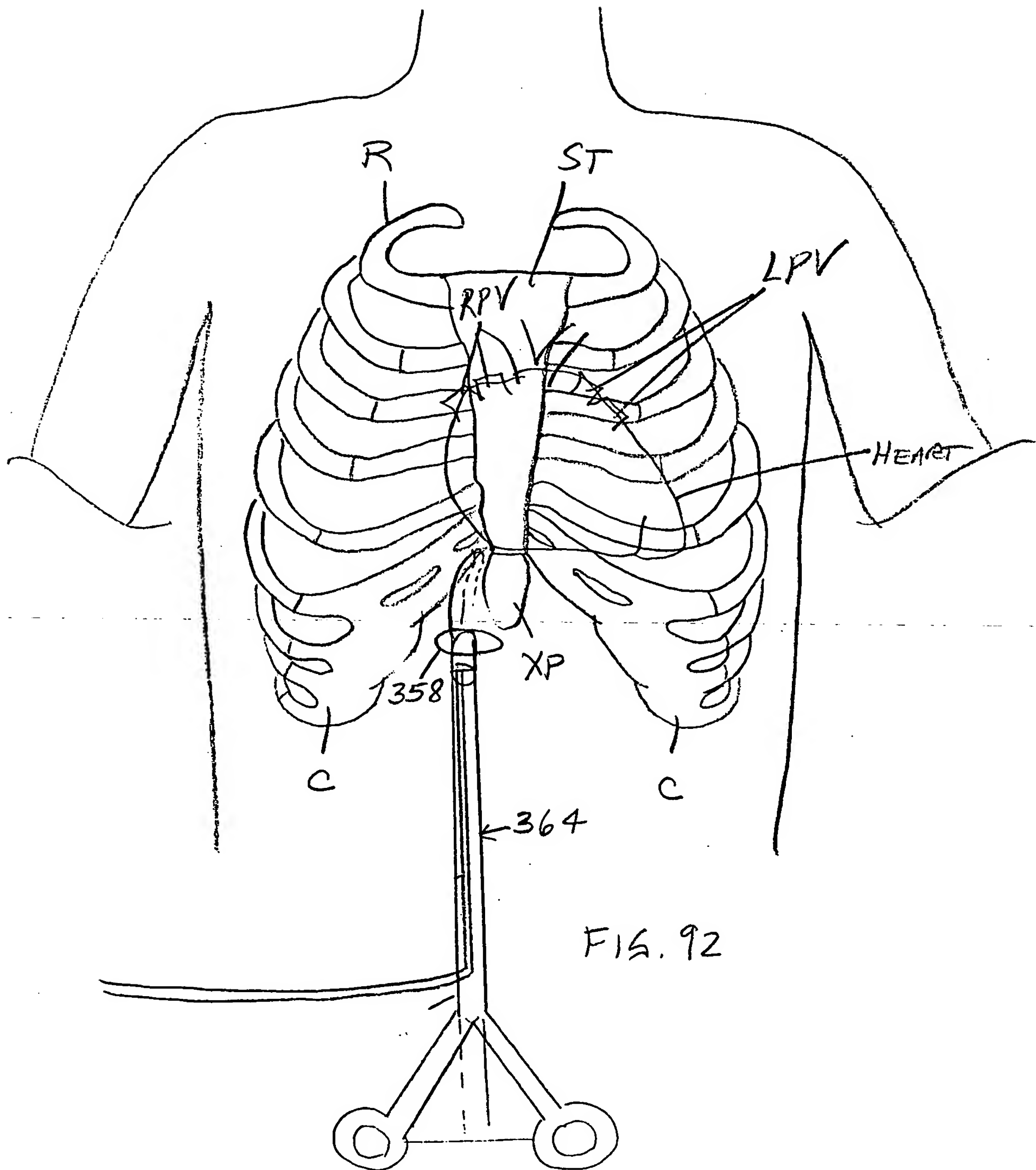


FIG. 92

X

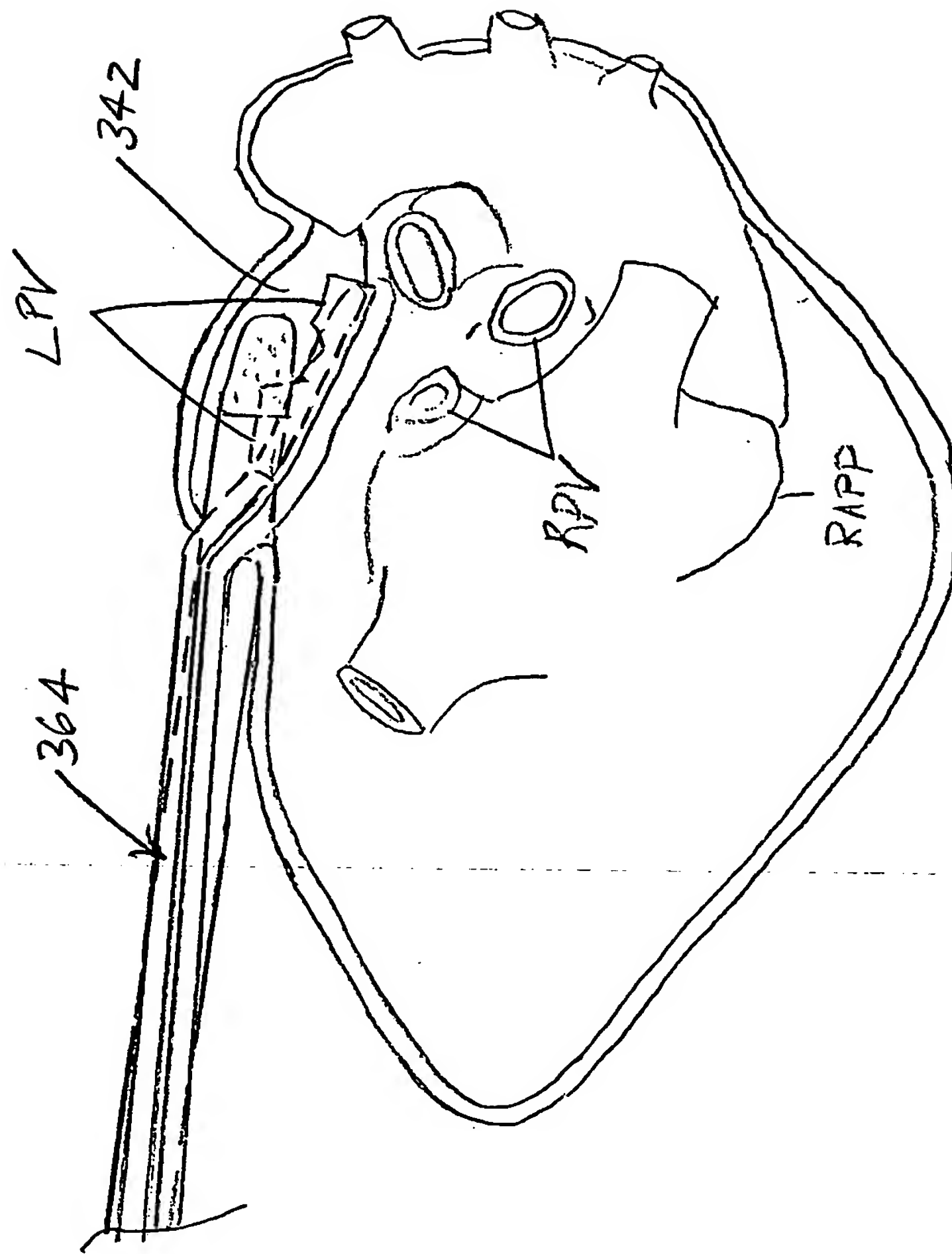


FIG 93

FIG. 93 is a schematic diagram of a catheter system in accordance with the present invention. The catheter system includes a catheter 364, a lead 342, and a rectangular electrode array 342. The catheter 364 is inserted into the right ventricle (RV) of the heart. The lead 342 is connected to the catheter 364 and has the rectangular electrode array 342 positioned on the surface of the RV. The label RAPP is also present near the RV. The diagram is oriented with the heart's apex at the top.

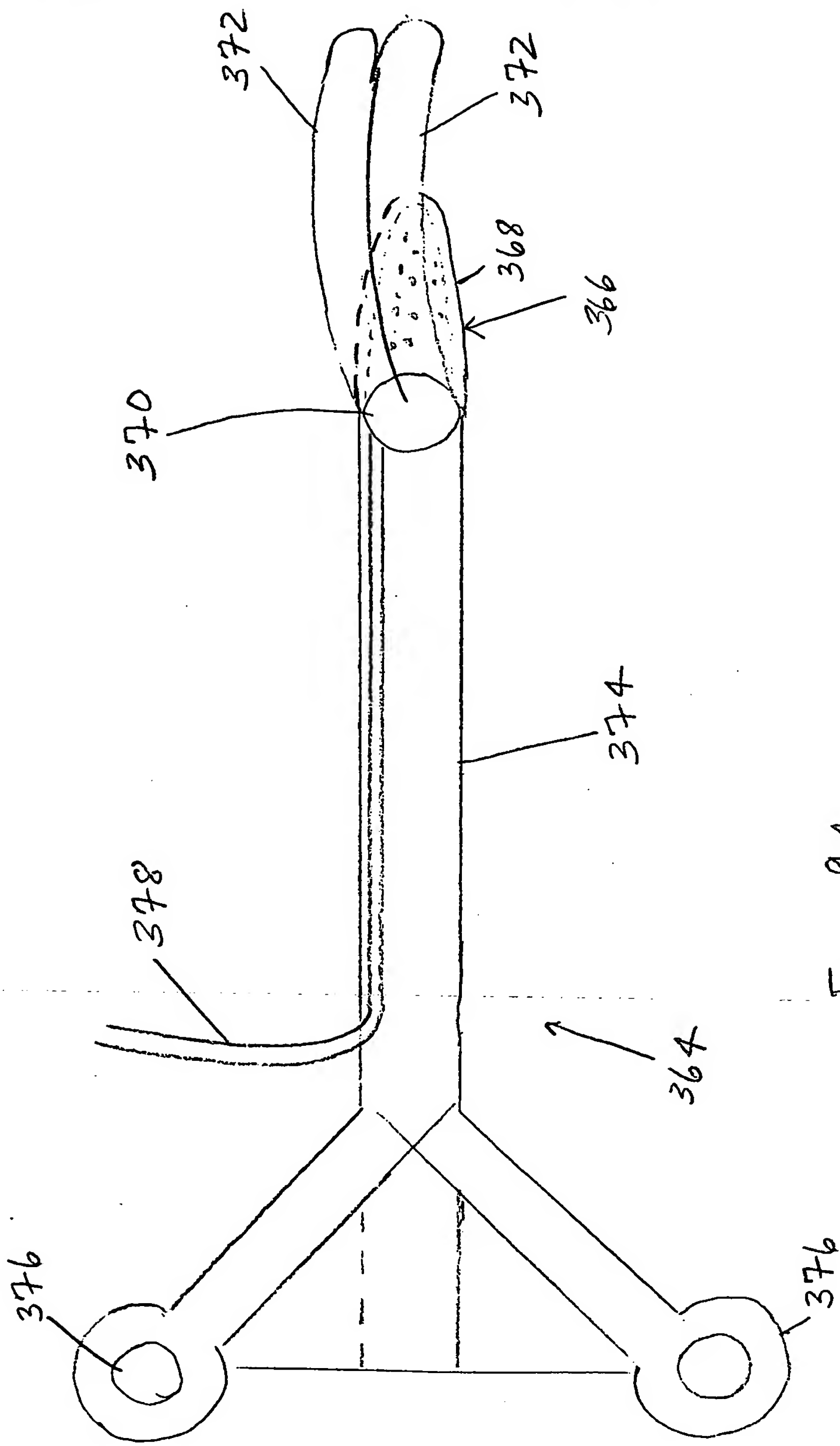


FIG. 94

FIG. 95

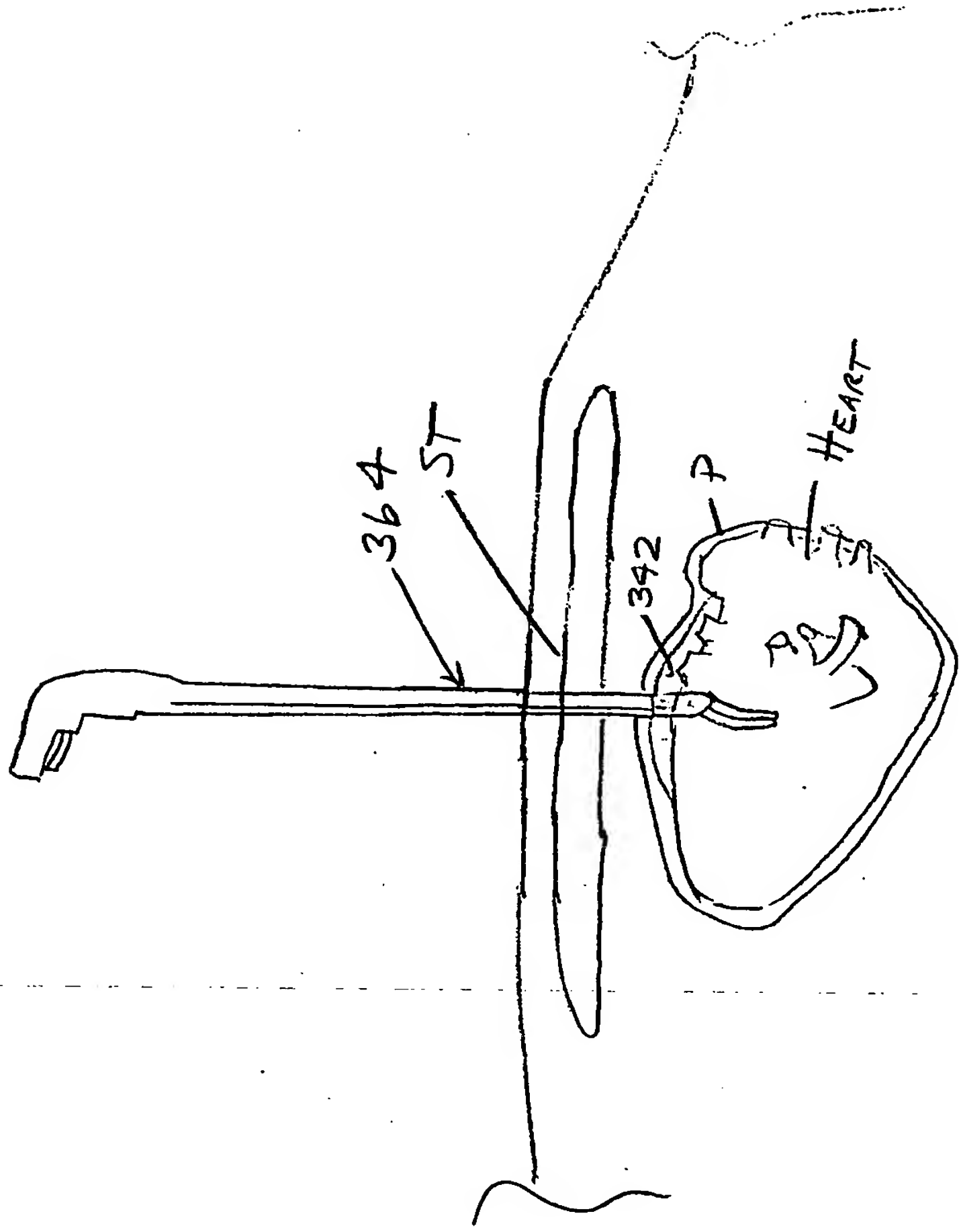


FIG. 95

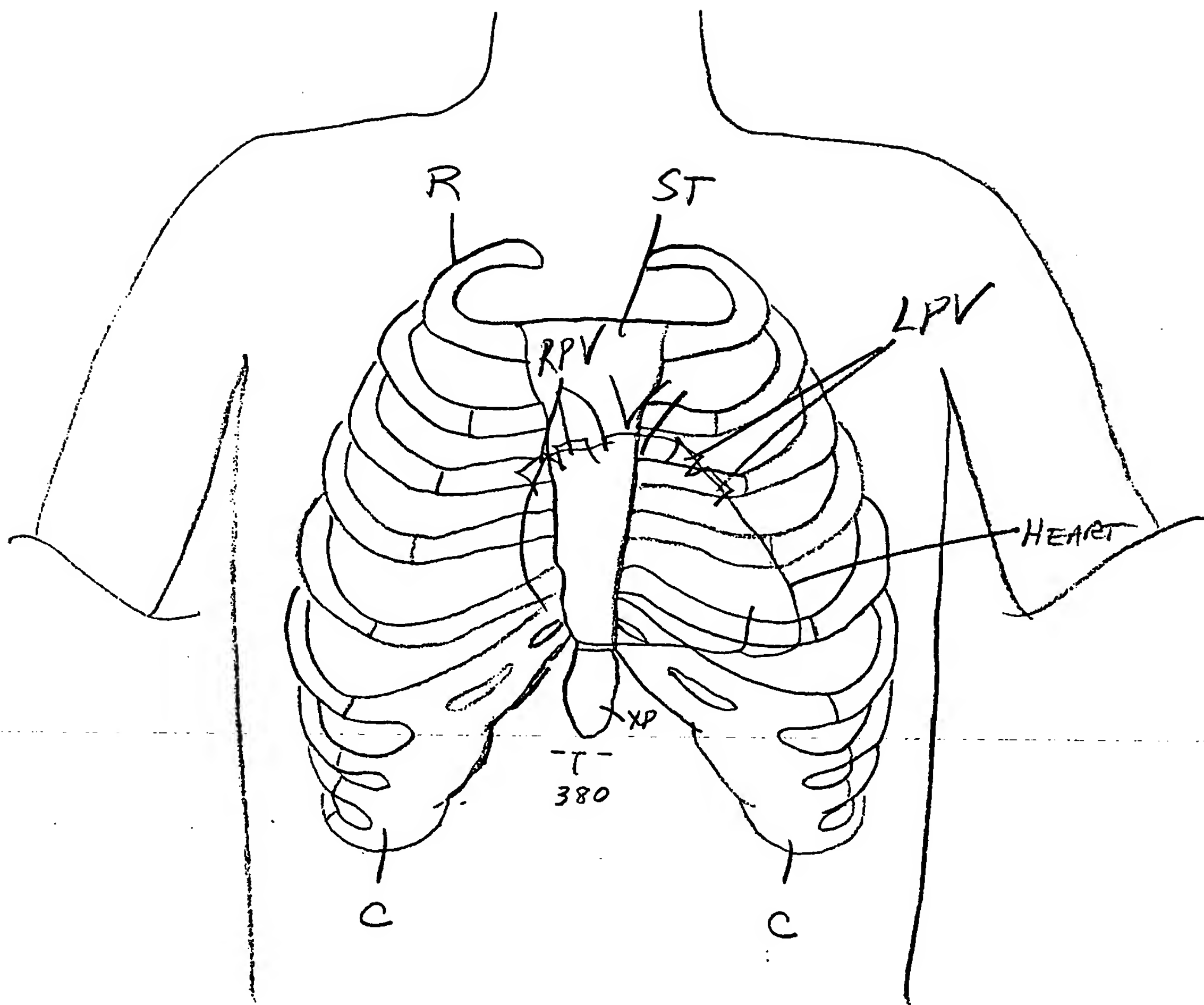


FIG. 96

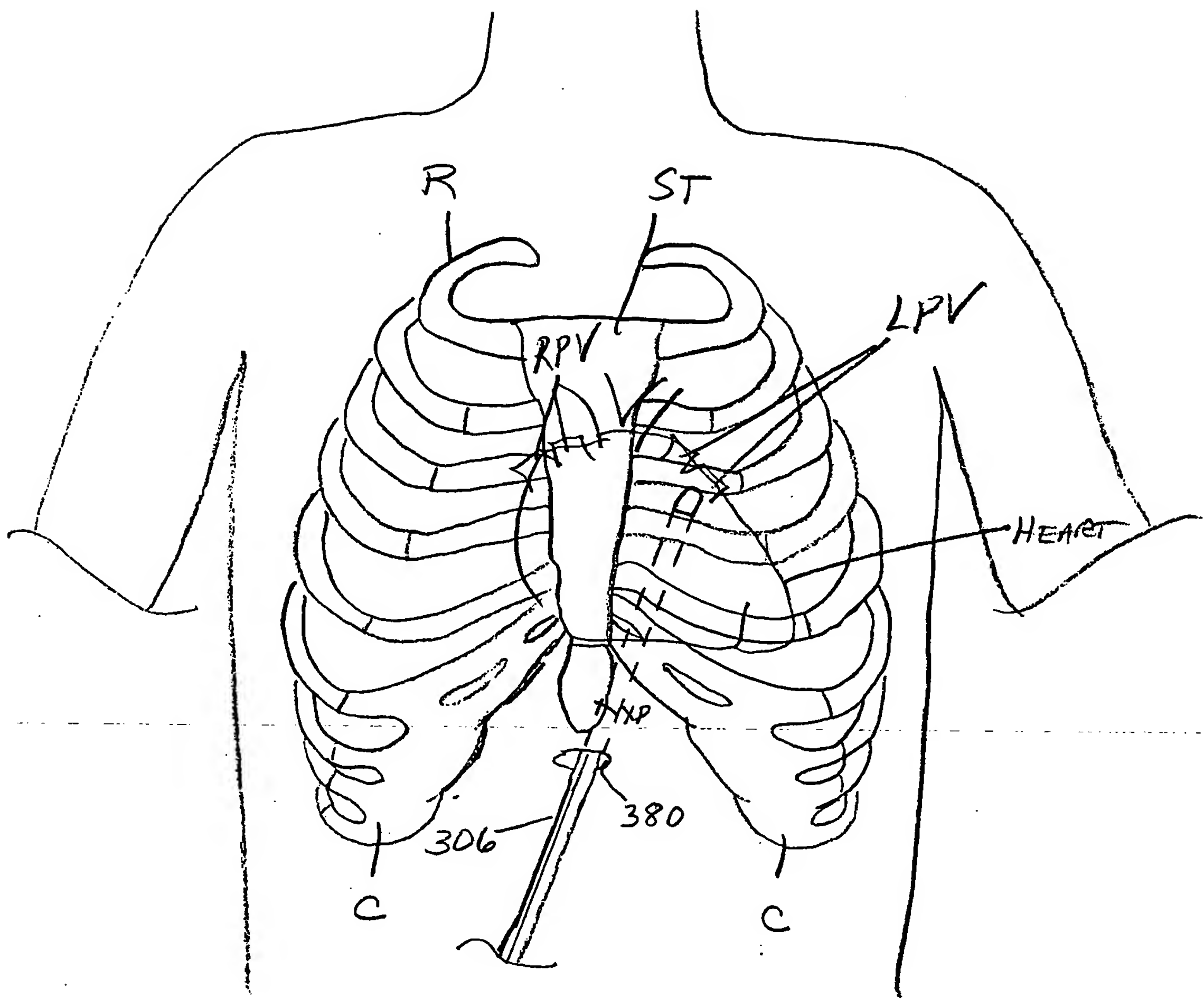


FIG. 97



X

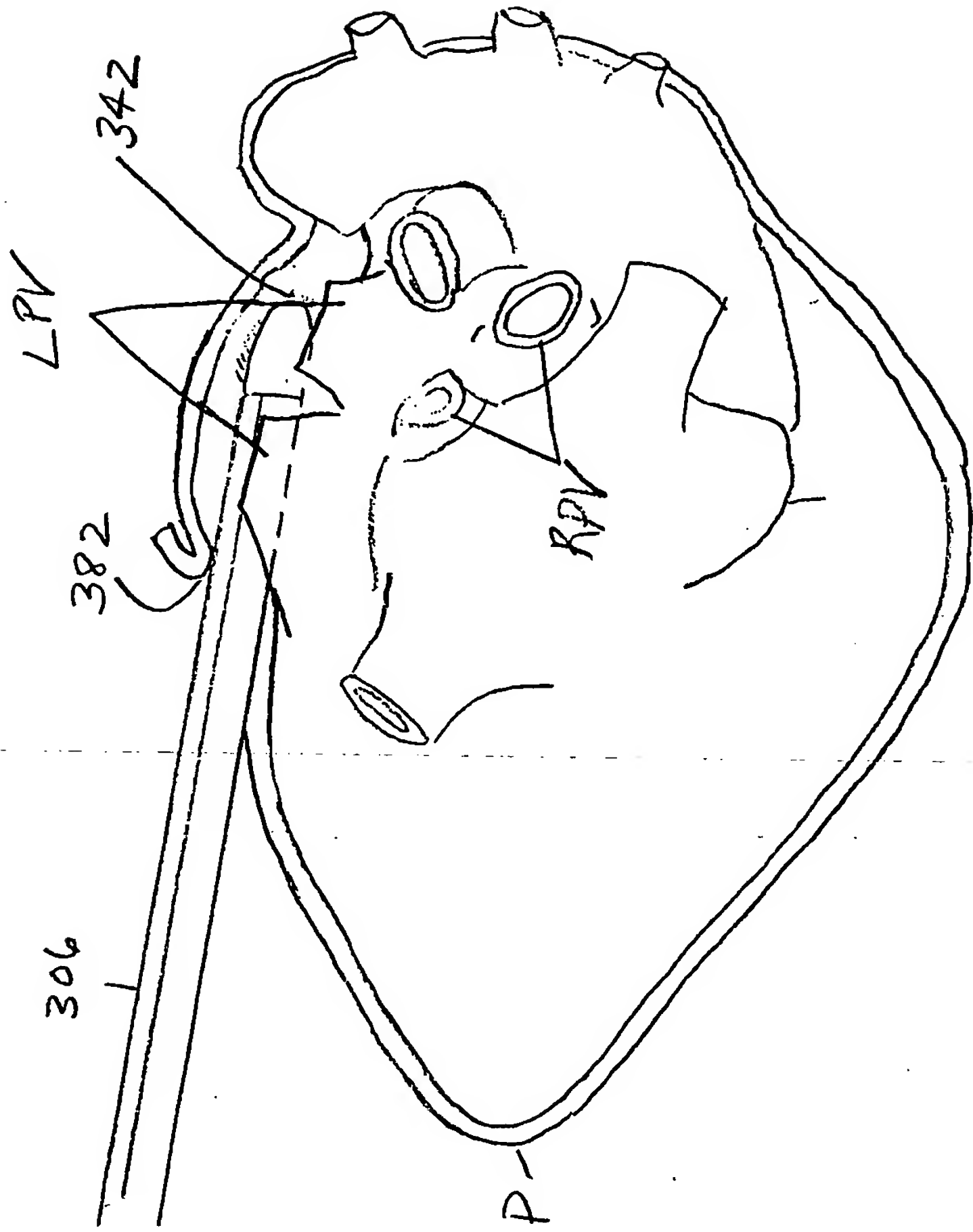


FIG. 99

FIG. 99 is a schematic diagram of a heart with a catheter system. The catheter system includes a catheter 306, a catheter 382, and a catheter 342. The catheter 306 is connected to the heart at the P- location. The catheter 382 is connected to the heart at the LPV location. The catheter 342 is connected to the heart at the RPV location.



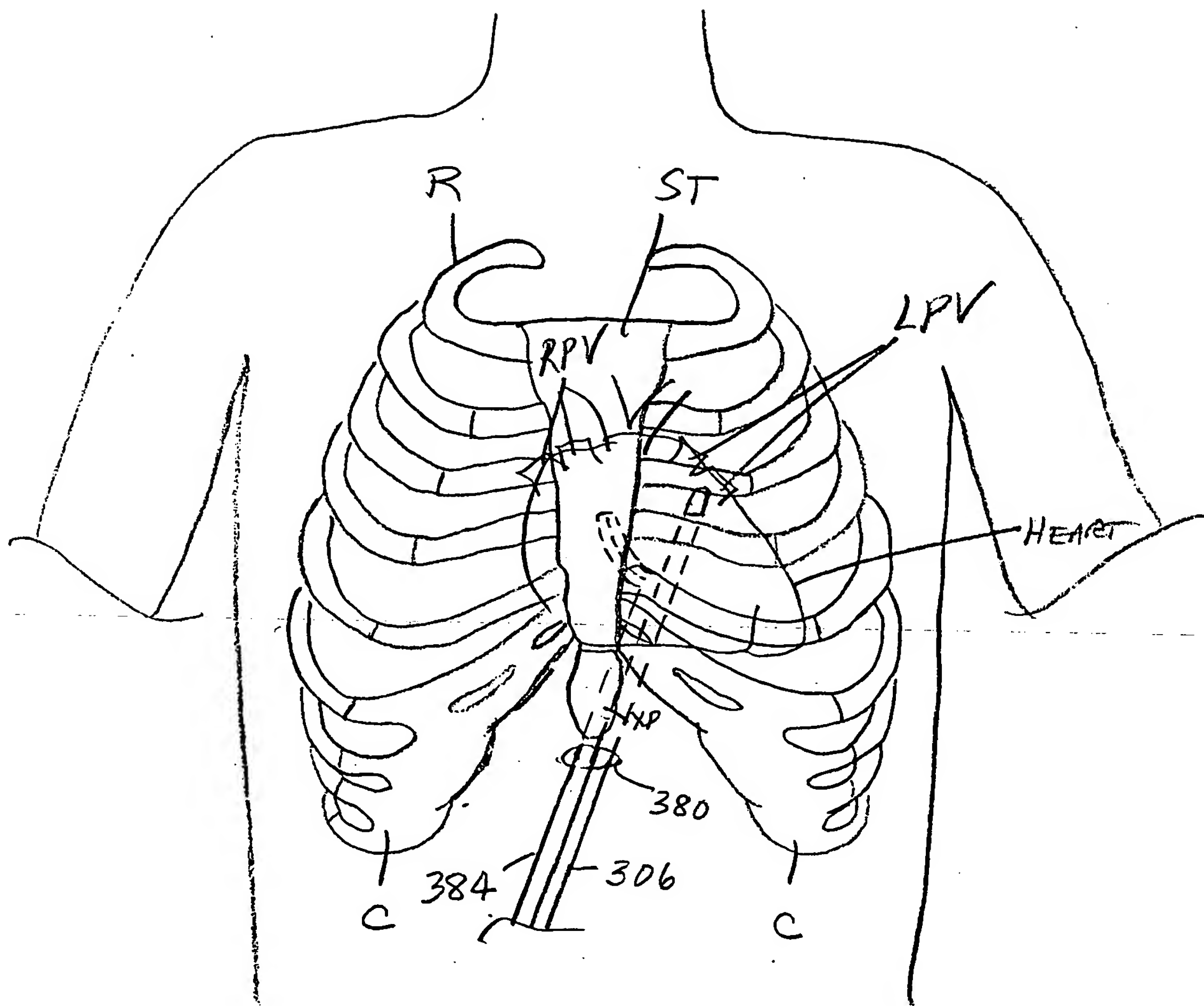


FIG. 100

FIG. 101 is a schematic diagram of a heart 100 with a catheter 306 inserted into the right ventricle (RV) through the right atrium (RA). The catheter 306 has a proximal end 384 and a distal end 382. The distal end 382 is positioned within the RV. The heart 100 is shown in cross-section, with the RA and RV labeled. The catheter 306 is shown with a dashed line indicating its internal structure. The proximal end 384 is connected to a pump or other device (not shown). The distal end 382 is shown with a small opening or sensor. The catheter 306 is shown with a curved shape, indicating it is flexible. The heart 100 is shown with a dashed line indicating its internal structure. The proximal end 384 is connected to a pump or other device (not shown). The distal end 382 is shown with a small opening or sensor. The catheter 306 is shown with a curved shape, indicating it is flexible.

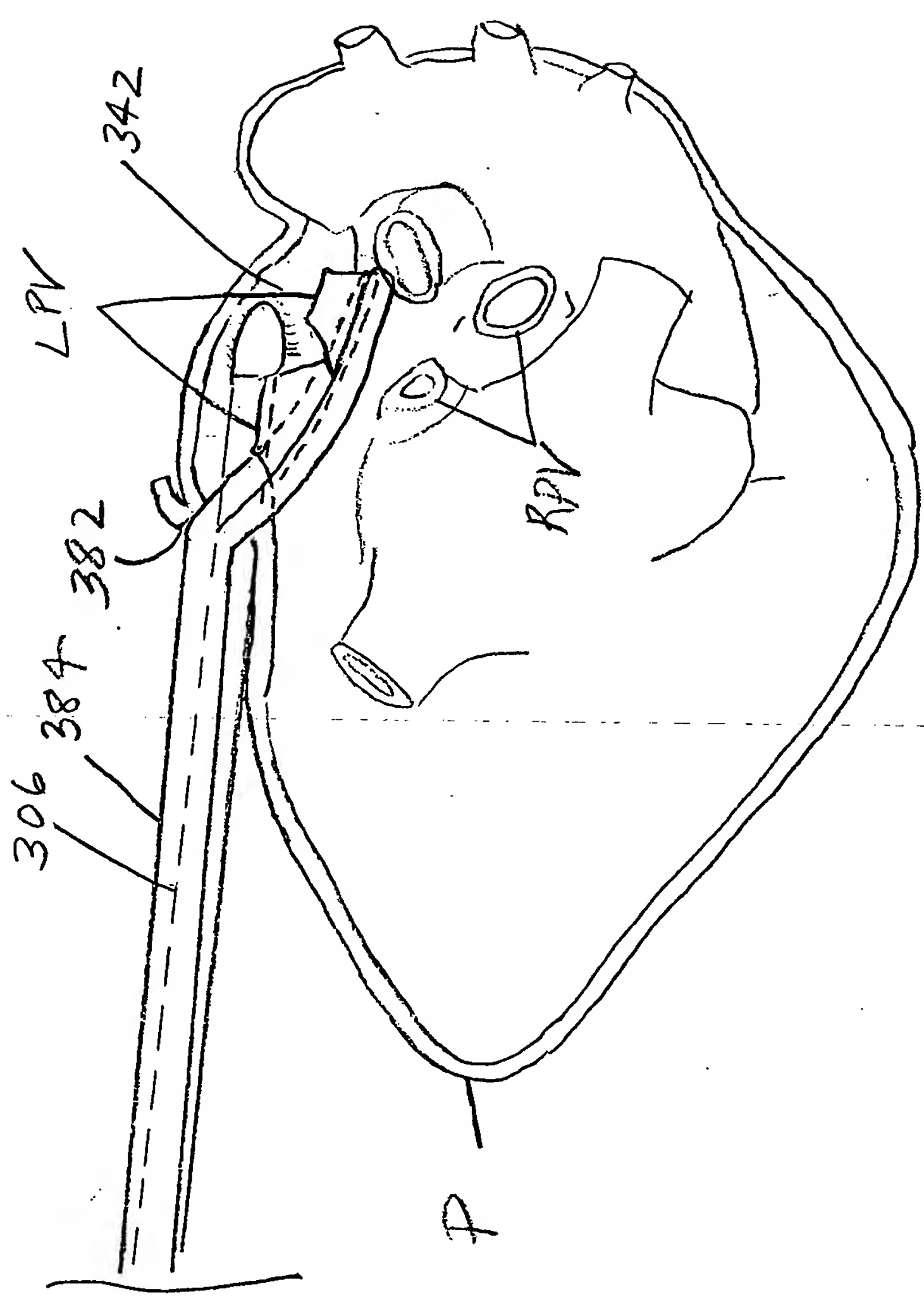


FIG. 101